



Environmental

6280 Brookshire Drive, Rocklin, CA 95677

Tel: (916) 415-1134, FAX : (916) 415-1154

KAP# 45000

to RRM

11-17-05

PV

October 28, 2005

Ms. Cat Runden  
Tesoro Environmental Resources Company  
3450 S. 344<sup>th</sup> Way, Suite 100  
Auburn WA 98001-5931

Subject: *Quarterly Ground Water Monitoring and  
Remediation System Status Report, Third Quarter 2005*  
Tesoro Station No. 67062  
(Former Beacon Station No. 3700)  
7898 Old Redwood Highway  
Cotati, California  
RDM Project No. 00-3700

Dear Ms. Runden:

On Behalf of Tesoro Environmental Resources Company (Tesoro), RDM Environmental (RDM) has prepared the following quarterly ground water monitoring report. This report describes quarterly ground water monitoring activities and remediation system status for the Third Quarter 2005.

**Work Performed During the Third Quarter 2005:**

- Ground water sampling was conducted on July 25, 2005.
- Operation and maintenance was conducted bi-monthly on the remediation system.
- The ozone sparge equipment was ordered during the Third Quarter 2005.

**STATUS OF GROUND WATER MONITORING**

Cumulative ground water sampling information is tabulated in Table 1. A site location map, site map, ground water elevation contour map for the A-Zone and B-Zone, and benzene, total petroleum hydrocarbon (TPH) as gasoline, and methyl-t-butyl ether iso-concentration maps for both the A-Zone and B-Zone are illustrated on Figures 1 through 10, respectively. MTBE is the primary chemical of concern for this site. Tesoro was directed by the Regional Water Quality Control Board to evaluate varying ground water characteristics of the two upper water bearing zones (A-Zone 10 to 20 feet below surface grade (bsg) and B-Zone 30 to 40 feet bsg). Figures 3 through 10 are a reflection of this evaluation.

The site history is included in Enclosure A, the quarterly monitoring data sheets are included in Enclosure B and the ground water analytical results are included in Enclosure C. Historical ground water monitoring data is included in Enclosure D.

- Local ground water flows towards the recovery wells and historical ground water flow direction is to the south.

### **STATUS OF REMEDIATION SYSTEM**

Operation and maintenance is performed bi-monthly by RDM on a remediation system consisting of ground water treatment and air sparging components. A process flow diagram showing details of the system is shown as Figure 11.

#### **Operation & Maintenance Site Visits:**

- Operation and maintenance site visits were conducted for the **Third Quarter 2005** on:
  - July 11 and 21, 2005
  - August 2, 14 and 29, 2005
  - September 13 and 26, 2005

#### **Ground Water Extraction System Performance:**

- The ground water treatment system operated continuously during the **Third Quarter 2005**.
- During the **Third Quarter 2005**, the ground water treatment system processed approximately 2,570 gallons.
- As of **September 26, 2005**, the ground water treatment system has processed approximately 2,422,750 gallons.
- The ground water treatment system performance data is included in Table 2. Remediation system analytical results are included in Enclosure E.
- The ground water treatment system extracts ground water from recovery wells RW-2 and RW-3A.
- Based on the low flow ground water extraction rates of the ground water system, RDM pulled, inspected, and cleaned the ground water recovery pumps in July 2005.

#### **Air Sparging System Performance:**

- The air sparging system did not operate during the **Third Quarter 2005**. The air sparge system was shut off during the ozone sparge test so as not to interfere with the ozone test results.
- When operational, the air sparging system injects air into monitoring wells MW-2, MW-4, MW-8, MW-9, MW-10, MW-14, and MW-19.
- The air-sparging compressor is operating with a 50/50 duty cycle.
- The air sparge system will be restarted started during the **Fourth Quarter 2005**.

#### **Purge Water & Disposal**

Purge water from the quarterly ground water monitoring event was pumped through the onsite remediation system and discharged into the sanitary sewer under permit.

### **CONCLUSIONS/RECOMMENDATIONS**

The ground water treatment system performance data included in Table 2 indicates the ground water treatment system is extracting and treating elevated concentrations of dissolved MTBE. The low flow through the ground water treatment system can be attributed to the dry season and age of the air stripper tower and totalizer. The air stripper and ground water system will be modified during the **Fourth Quarter**

Ms. Cat Runden  
Tesoro Environmental Resources Company  
October 28, 2005  
Page 3

**2005.** RDM recommends continued operation of the remediation system and continuing quarterly ground water monitoring activities.

With the installation of the ozone wells in June, RDM is moving forward with the full scale ozone system. Installation of the ozone sparge system is tentatively scheduled for December 2005.

The interpretations contained in this report represent our professional opinions and are based, in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

RDM recommends that this report be forwarded to the following agency:

Ms. Beth Lamb  
California Regional Water Quality Control Board,  
North Coast Region  
5550 Skylane Boulevard, Suite A  
Santa Rosa, CA 95403

If you have any questions concerning this project, please contact Richard Munsch at (916) 415-1134.

**RDM ENVIRONMENTAL**

  
Richard D. Munsch  
Project Manager

  
Michael G. Lee, P.E.  
California Registered Civil Engineer No. C055795



RDM (67062 3Q GWM 7-25-05.doc)

cc: Ms. Tammy Devol – Santa Rosa Sub-Regional Water Reclamation System

**Enclosures:**

- Enclosure A: Site Background Information
- Enclosure B: Ground Water Sampling Information
- Enclosure C: Ground Water Monitoring Analytical Results
- Enclosure D: Historical Ground Water Monitoring Data
- Enclosure E: Remediation System Analytical Results

TABLE 1

**GROUND WATER MONITORING DATA**  
**Tesoro Station No. 67062**  
**Former Beacon Station No. 3700**  
**7898 Old Redwood Highway**  
**Cotati, California**

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-2	08/20/98	106.58	12.16	94.42	<50	<50	<50	<50	<5,000	1,000	NA	No LPH or sheen
	11/18/98		16.26	90.32	<0.5	<0.5	<0.5	0.76	74	140	NA	No LPH or sheen
	02/15/99		11.78	94.80	0.72	0.93	<0.5	1.5	69	6,800	NA	No LPH or sheen
	05/19/99		12.51	94.07	<0.5	<0.5	<0.5	<0.5	73	38	NA	No LPH or sheen
	09/08/99		15.97	90.61	<0.5	0.76	<0.5	<0.5	130	580	NA	No LPH or sheen
	11/24/99		17.37	89.21	<2.5	3.7	<2.5	<2.5	4200	6,900	NA	No LPH or sheen
	03/15/00		10.50	96.08	<2.0	<2.0	<2.0	<2.0	<200	16,000	NA	No LPH or sheen
	11/27/00		17.03	89.55	<5.0	<5.0	<5.0	<5.0	<500	1,700	NA	No LPH or sheen
	02/13/01		14.26	92.32	<5.0	<5.0	<5.0	<5.0	<500	2,800	NA	No LPH or sheen
	06/14/01		15.27	91.31	<2.5	<2.5	<2.5	<2.5	<250	1,100	NA	No LPH or sheen
	08/28/01		17.59	88.99	<5.0	<5.0	<5.0	<5.0	3000	<500	NA	No LPH or sheen
	11/26/01		18.05	88.53	<2.0	<2.0	<2.0	<2.0	<200	660	NA	No LPH or sheen
	03/07/02	108.69	12.15	95.54	<50	<50	<50	<50	<5,000	21,000	NA	No LPH or sheen
	06/10/02		14.78	93.91	<10	<10	<10	<10	24000	4,300	NA	No LPH or sheen
	08/26/02		17.22	91.47	<5.0	<5.0	<5.0	<5.0	<500	2,100	NA	No LPH or sheen
	11/27/02		18.75	89.94	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		13.29	95.40	<25	<25	<25	<25	<2,500	10,000	3400 <sup>a</sup>	No LPH or sheen
	05/28/03		13.41	95.28	<1.5	<1.5	<1.5	<1.5	<200	600	970 <sup>a</sup>	No LPH or sheen
	08/11/03		15.32	93.37	<5.0	<5.0	<5.0	<5.0	<500	1,700	2,300 <sup>a</sup>	No LPH or sheen
	11/20/03		18.21	90.48	<1.5	<1.5	<1.5	<1.5	<200	830	2200 <sup>a</sup>	No LPH or sheen
	03/12/04		11.68	97.01	4.0	1.2	<1.0	1.7	110	130	2100 <sup>a</sup>	No LPH or sheen
	05/01/04		13.34	95.35	<0.5	<0.5	<0.5	<0.5	81	91	1300 <sup>a</sup>	No LPH or sheen
	07/09/04		14.61	94.08	<0.5	<0.5	<0.5	<0.5	75	36	600 <sup>a</sup>	No LPH or sheen
	11/19/04		14.88	93.81	<0.5	<0.5	<0.5	<0.5	98	11	200 <sup>a</sup>	No LPH or sheen
	02/18/05		11.70	96.99	<0.5	<0.5	<0.5	<0.5	100	27	910 <sup>a</sup>	No LPH or sheen
	04/29/05		11.15	97.54	<0.5	<0.5	<0.5	<0.5	86	79	1,400 <sup>a</sup>	No LPH or sheen
	07/25/05		11.50	97.19	<0.5	<0.5	<0.5	<0.5	66	49	360 <sup>a</sup>	No LPH or sheen

TABLE 1

**GROUND WATER MONITORING DATA**  
**Tesoro Station No. 67062**  
**Former Beacon Station No. 3700**  
**7898 Old Redwood Highway**  
**Cotati, California**

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L.)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-3	08/20/98	105.99	12.39	93.60	NS	NS	NS	NS	NS	NS	NA	Not sampled
	11/18/98		16.04	89.95	NS	NS	NS	NS	NS	NS	NA	Not sampled
	02/15/99		10.99	95.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		11.94	94.05	NS	NS	NS	NS	NS	NS	NS	Not sampled
	09/08/99		15.86	90.13	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/24/99		17.14	88.85	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/15/00		9.16	96.83	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		18.70	87.29	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/13/01		13.24	92.75	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/14/01		14.08	91.91	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/28/01		16.31	89.68	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/26/01		17.01	88.98	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/07/02	108.60	11.88	96.72	<0.5	<0.5	<0.5	<0.5	<50	140	NA	No LPH or sheen
	06/10/02		14.20	94.40	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/26/02		16.70	91.90	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/27/02		18.12	90.48	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		12.60	96.00	<0.5	<0.5	<0.5	<0.5	<50	88	ND	No LPH or sheen
	05/28/03		11.55	97.05	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/11/03		14.81	93.79	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/20/03		17.90	90.70	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/12/04		10.43	98.17	<0.5	<0.5	<0.5	<0.5	<50	760	ND	Not sampled
	05/01/04		12.63	95.97	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/09/04		14.16	94.44	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/19/04		14.29	94.31	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/18/05		9.96	98.64	<0.5	<0.5	<0.5	<0.5	<50	19.0	ND	No LPH or sheen
	04/29/05		9.85	98.75	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/25/05		10.27	98.33	NS	NS	NS	NS	NS	NS	NS	Not sampled

TABLE 1

**GROUND WATER MONITORING DATA**  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Old Redwood Highway  
 Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-4	08/20/98	104.52	12.74	91.78	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/18/98		14.91	89.61	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/15/99		13.12	91.40	<0.5	<0.5	<0.5	<0.5	86	15	NA	No LPH or sheen
	05/19/99		10.44	94.08	NS	NS	NS	NS	NS	NS	NS	Not sampled
	09/08/99		16.50	88.02	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/24/99		17.40	87.12	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/15/00		9.44	95.08	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		18.98	85.54	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/13/01		15.83	88.69	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/14/01		14.90	89.62	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/28/01		17.46	87.06	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/26/01		19.92	84.60	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/07/02	107.18	11.65	95.53	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/10/02		14.06	93.12	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/26/02		16.58	90.60	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/27/02		17.98	89.20	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not Located
	05/28/03		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not Located
	08/11/03		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not Located
	11/20/03		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not Located
	03/12/04		8.85	98.33	0.75	<0.5	<0.5	2.60	<50	3.1	7.5 <sup>a</sup> , 0.58 <sup>b</sup>	No LPH or sheen
	05/01/04		10.88	96.30	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/09/04		13.80	93.38	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/19/04		14.16	93.02	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/18/05		8.66	98.52	<0.5	<0.5	<0.5	0.67	<50	2.6	ND	No LPH or sheen
	04/29/05		7.38	99.80	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/25/05		7.57	99.61	NS	NS	NS	NS	NS	NS	NS	Not sampled

**TABLE 1**  
**GROUND WATER MONITORING DATA**  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Old Redwood Highway  
 Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethyl-benzene ( $\mu\text{g/L}$ )	Total Xylenes ( $\mu\text{g/L}$ )	TPH as gasoline ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	Oxygenates ( $\mu\text{g/L}$ )	Comments
MW-5	08/20/98	104.91	12.63	92.28	2.6	0.72	<0.5	0.54	350	<50	NA	No LPH or sheen
	11/18/98		15.40	89.51	1.7	0.7	<0.5	1.1	<50	<5.0	NA	No LPH or sheen
	02/15/99		12.88	92.03	0.91	<0.5	<0.5	<0.5	61	<5.0	NA	No LPH or sheen
	05/19/99		9.65	95.26	<0.5	<0.5	<0.5	<0.5	<30	<5.0	NA	No LPH or sheen
	09/08/99		15.07	89.84	1.5	<0.5	<0.5	1.3	120	<5.0	NA	No LPH or sheen
	11/24/99		16.95	87.96	2.0	0.55	<0.5	1.3	200	<5.0	NA	No LPH or sheen
	03/15/00		8.31	96.60	<0.5	<0.5	<0.5	<0.5	59	<5.0	NA	No LPH or sheen
	11/27/00		17.32	87.59	2.2	<0.5	<0.5	0.75	230	<0.5	NA	No LPH or sheen
	02/13/01		15.81	89.10	2.4	0.54	<0.5	0.98	120	0.58	NA	No LPH or sheen
	06/14/01		14.82	90.09	2.6	<0.5	<0.5	0.88	89	<0.5	NA	No LPH or sheen
	08/28/01		17.40	87.51	3.0	0.6	<0.5	0.73	550	<0.5	NA	No LPH or sheen
	11/26/01		20.22	84.69	2.7	<0.5	<0.5	0.85	390	<0.5	NA	No LPH or sheen
	03/07/02	106.84	10.60	96.24	1.2	2.9	<0.5	<0.5	160	<0.5	NA	No LPH or sheen
	06/10/02		12.99	93.85	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	08/26/02		15.21	91.63	1.3	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	11/27/02		19.19	87.65	2.2	0.54	<0.5	0.61	<50	<0.5	ND	No LPH or sheen
	02/27/03		12.35	94.49	0.67	0.79	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/28/03		11.16	95.68	0.64	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	08/11/03		14.90	91.94	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	11/20/03		17.30	89.54	1.6	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	03/12/04		8.57	98.27	0.7	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/01/04		10.19	96.65	0.63	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	07/09/04		12.93	93.91	1.30	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	11/19/04		13.64	93.20	1.30	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	02/18/05		7.99	98.85	<0.5	0.75	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	04/29/05		6.80	100.04	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	07/25/05		6.59	100.25	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen

TABLE 1

**GROUND WATER MONITORING DATA**  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Old Redwood Highway  
 Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethyl-benzene ( $\mu\text{g/L}$ )	Total Xylenes ( $\mu\text{g/L}$ )	TPH as gasoline ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	Oxygenates ( $\mu\text{g/L}$ )	Comments
MW-6	08/20/98	107.81	12.81	95.00	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/18/98		16.98	90.83	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	02/15/99		12.58	95.23	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	Not sampled
	05/19/99		9.54	98.27	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	09/08/99		15.01	92.80	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/24/99		15.98	91.83	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/15/00		10.56	97.25	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	Not sampled
	11/27/00		17.01	90.80	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	02/13/01		15.00	92.81	<0.5	<0.5	<0.5	<0.5	<50	3.7	NA	Not sampled
	06/14/01		15.78	92.03	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	08/28/01		18.29	89.52	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/26/01		18.62	89.19	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/07/02	110.20	12.43	97.77	<0.5	<0.5	<0.5	<0.5	<50	6.4	NA	No LPH or sheen
	06/10/02		14.91	95.29	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/26/02		17.38	92.82	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	11/27/02		18.81	91.39	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		13.28	96.92	<0.5	<0.5	<0.5	<0.5	<50	4.7	ND	Not sampled
	05/28/03		12.81	97.39	<0.5	NS	NS	NS	NS	NS	NS	No LPH or sheen
	08/11/03		15.42	94.78	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/20/03		18.44	91.76	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/12/04		10.86	99.34	NS	NS	NS	NS	NS	NS	NS	Not sampled
	05/01/04		13.11	97.09	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/09/04		15.24	94.96	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/19/04		15.29	94.91	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/18/05		10.57	99.63	<0.5	<0.5	<0.5	<0.5	<50	2.2	ND	No LPH or sheen
	04/29/05		10.37	99.83	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/25/05		9.20	101.00	NS	NS	NS	NS	NS	NS	NS	Not sampled

**TABLE 1**  
**GROUND WATER MONITORING DATA**  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Old Redwood Highway  
 Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-7	08/20/98	106.31	12.26	94.05	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/18/98		15.36	90.95	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/15/99		9.82	96.49	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		10.75	95.56	NS	NS	NS	NS	NS	NS	NS	Not sampled
	09/08/99		16.03	90.28	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/24/99		17.01	89.30	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/15/00		8.30	98.01	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		17.20	89.11	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/13/01		11.72	94.59	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/14/01		12.70	93.61	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/28/01		15.68	90.63	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/26/01		15.91	90.40	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/07/02	108.12	9.61	98.51	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/10/02		12.10	96.02	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/26/02		15.51	92.61	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/27/02		16.62	91.50	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		10.49	97.63	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/28/03		10.31	97.81	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/11/03		12.92	95.20	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/20/03		16.10	92.02	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/12/04		8.83	99.29	<0.5	<0.5	<0.5	<0.5	<50	100	ND	No LPH or sheen
	05/01/04		10.95	97.17	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/09/04		12.63	95.49	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/19/04		12.70	95.42	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/18/05		8.75	99.37	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	04/29/05		8.70	99.42	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/25/05		8.18	99.94	NS	NS	NS	NS	NS	NS	NS	Not sampled

TABLE 1

**GROUND WATER MONITORING DATA**  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Old Redwood Highway  
 Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethyl-benzene ( $\mu\text{g/L}$ )	Total Xylenes ( $\mu\text{g/L}$ )	TPH as gasoline ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	Oxygenates ( $\mu\text{g/L}$ )	Comments
MW-8	08/20/98	106.50	12.43	94.07	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/18/98		15.04	91.46	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	02/15/99		11.61	94.89	<0.5	<0.5	<0.5	<0.5	<50	28	NA	No LPH or sheen
	05/19/99		11.95	94.55	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	09/08/99		15.42	91.08	<0.5	<0.5	<0.5	<0.5	<50	5.9	NA	No LPH or sheen
	11/24/99		15.45	91.05	<0.5	0.51	<0.5	0.6	<50	10	NA	No LPH or sheen
	03/15/00		7.57	98.93	<0.5	<0.5	<0.5	<0.5	59	<5.0	NA	No LPH or sheen
	11/27/00		15.93	90.57	<0.5	<0.5	<0.5	<0.5	<50	0.6	NA	No LPH or sheen
	02/13/01		11.37	95.13	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/14/01		13.19	93.31	<0.5	<0.5	<0.5	<0.5	<50	0.95	NA	No LPH or sheen
	08/28/01		16.17	90.33	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/26/01		Dry	NC	NS	NS	NS	NS	NS	NS	NS	Dry
	03/07/02	108.54	7.80	100.74	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/10/02		12.33	96.21	<0.5	<0.5	<0.5	<0.5	<50	3.7	NA	No LPH or sheen
	08/26/02		15.78	92.76	<0.5	<0.5	<0.5	<0.5	<50	8.0	NA	No LPH or sheen
	11/27/02		16.70	91.84	<0.5	<0.5	<0.5	<0.5	<50	110	19 <sup>a</sup>	No LPH or sheen
	02/27/03		9.52	99.02	<0.5	<0.5	<0.5	<0.5	<50	0.6	ND	No LPH or sheen
	05/28/03		10.78	97.76	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	08/11/03		13.27	95.27	<0.5	<0.5	<0.5	<0.5	<50	8.3	ND	No LPH or sheen
	11/20/03		16.55	91.99	<0.5	<0.5	<0.5	<0.5	<50	140	18 <sup>a</sup>	No LPH or sheen
	03/12/04		8.54	100.00	<0.5	<0.5	<0.5	<0.5	<50	6.4	ND	No LPH or sheen
	05/01/04		10.99	97.55	<0.5	<0.5	<0.5	<0.5	<50	15	ND	No LPH or sheen
	07/09/04		12.42	96.12	<0.5	<0.5	<0.5	<0.5	<50	28	ND	No LPH or sheen
	11/19/04		12.70	95.84	<0.5	<0.5	<0.5	<0.5	<50	11	ND	No LPH or sheen
	02/18/05		8.84	99.70	0.89	1.6	<0.5	0.94	<50	<0.5	ND	No LPH or sheen
	04/29/05		9.19	99.35	<0.5	<0.5	<0.5	<0.5	<50	1.7	ND	No LPH or sheen
	07/25/05		9.52	99.02	<0.5	<0.5	<0.5	<0.5	<50	4.1	ND	No LPH or sheen

**TABLE 1**  
**GROUND WATER MONITORING DATA**  
**Tesoro Station No. 67062**  
**Former Beacon Station No. 3700**  
**7898 Old Redwood Highway**  
**Cotati, California**

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethyl-benzene ( $\mu\text{g/L}$ )	Total Xylenes ( $\mu\text{g/L}$ )	TPH as gasoline ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	Oxygenates ( $\mu\text{g/L}$ )	Comments
MW-9	08/20/98	106.25	11.41	94.84	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/18/98		15.86	90.39	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/15/99		11.72	94.53	<0.5	<0.5	<0.5	<0.5	<50	9.1	NA	No LPH or sheen
	05/19/99		11.98	94.27	NS	NS	NS	NS	NS	NS	NS	Not sampled
	09/08/99		15.47	90.78	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/24/99		16.70	89.55	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/15/00		5.85	100.40	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		12.16	94.09	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/13/01		6.01	100.24	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/14/01		10.30	95.95	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/28/01		12.13	94.12	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/26/01		12.50	93.75	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/07/02	108.39	6.05	102.34	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/10/02		8.70	99.69	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/26/02		11.50	96.89	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/27/02		17.76	90.63	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		8.94	99.45	<0.5	<0.5	<0.5	<0.5	<50	0.57	ND	No LPH or sheen
	05/28/03		9.81	98.58	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/11/03		12.06	96.33	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/20/03		14.98	93.41	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/12/04		6.59	101.80	<0.5	<0.5	<0.5	<0.5	<50	0.73	ND	No LPH or sheen
	05/01/04		8.36	100.03	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/09/04		11.21	97.18	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/19/04		9.42	98.97	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/18/05		6.90	101.49	<0.5	<0.5	<0.5	<0.5	<50	0.98	ND	No LPH or sheen
	04/29/05		6.78	101.61	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/25/05		8.13	100.26	NS	NS	NS	NS	NS	NS	NS	Not sampled

TABLE 1

**GROUND WATER MONITORING DATA**  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Old Redwood Highway  
 Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-10	08/20/98	106.47	12.84	93.63	2.3	1.2	4.5	26	420	<5.0	NA	No LPH or sheen
	11/18/98		15.73	90.74	3.5	2.2	4.9	33	1100	9.7	NA	No LPH or sheen
	02/15/99		11.64	94.83	5.4	0.71	12	43	630	<5.0	NA	No LPH or sheen
	05/19/99		11.80	94.67	<0.5	<0.5	<0.5	0.56	69	<5.0	NA	No LPH or sheen
	09/08/99		15.26	91.21	1.9	0.69	6.0	26	770	<5.0	NA	No LPH or sheen
	11/24/99		16.46	90.01	1.2	0.74	3.8	21	1100	<5.0	NA	No LPH or sheen
	03/15/00		8.22	98.25	<0.5	<0.5	<0.5	0.87	58	<5.0	NA	No LPH or sheen
	11/27/00		16.95	89.52	<0.5	<0.5	2.8	18	1,000	0.66	NA	No LPH or sheen
	02/13/01		14.39	92.08	<0.5	<0.5	<0.5	0.71	<50	0.76	NA	No LPH or sheen
	06/14/01		15.07	91.40	<0.5	<0.5	1.9	11	750	1.0	NA	No LPH or sheen
	08/28/01		17.31	89.16	1.1	0.68	8.7	54	1,900	2.8	NA	No LPH or sheen
	11/26/01		Dry	NC	NS	NS	NS	NS	NS	NS	NS	Dry
	03/07/02	108.60	10.71	95.76	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/10/02		13.82	94.78	<0.5	<0.5	<0.5	<1.0	<50	0.52	NA	No LPH or sheen
	08/26/02		16.81	91.79	<0.5	<0.5	<0.5	1.9	71	0.53	NA	No LPH or sheen
	11/27/02		18.38	90.22	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		12.40	96.20	<0.5	<0.5	<0.5	1.9	130	0.54	ND	No LPH or sheen
	05/28/03		11.65	96.95	<0.5	<0.5	<0.5	<0.5	<50	0.91	ND	No LPH or sheen
	08/11/03		14.43	94.17	<0.5	<0.5	<0.5	<0.5	<50	0.66	ND	No LPH or sheen
	11/20/03		17.69	90.91	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/12/04		9.44	99.16	<0.5	<0.5	3.10	20	720	1.2	ND	No LPH or sheen
	05/01/04		11.26	97.34	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/09/04		12.86	95.74	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/19/04		9.72	98.88	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/18/05		9.42	99.18	<0.5	<0.5	1.1	6.2	220	0.66	ND	No LPH or sheen
	04/29/05		8.71	99.89	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/25/05		9.03	99.57	NS	NS	NS	NS	NS	NS	NS	Not sampled

TABLE 1

**GROUND WATER MONITORING DATA**  
**Tesoro Station No. 67062**  
**Former Beacon Station No. 3700**  
**7898 Old Redwood Highway**  
**Cotati, California**

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-13	08/20/98	106.01	11.01	95.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/18/98		14.29	91.72	<0.5	<0.5	<0.5	<0.5	<50	81	NA	No LPH or sheen
	02/15/99		9.42	96.59	<0.5	<0.5	<0.5	<0.5	<50	120	NA	No LPH or sheen
	05/19/99		10.11	95.90	<0.5	<0.5	<0.5	<0.5	<50	72	NA	No LPH or sheen
	09/08/99		13.46	92.55	<0.5	<0.5	<0.5	<0.5	<50	10	NA	No LPH or sheen
	11/24/99		14.47	91.54	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	03/15/00		7.70	98.31	<0.5	<0.5	<0.5	<0.5	<50	92	NA	No LPH or sheen
	11/27/00		14.91	91.10	<0.5	<0.5	<0.5	<0.5	<50	23	NA	No LPH or sheen
	02/13/01		11.64	94.37	<0.5	<0.5	<0.5	0.71	<50	35	NA	No LPH or sheen
	06/14/01		12.80	93.21	<0.5	<0.5	<0.5	<0.5	<50	13	NA	No LPH or sheen
	08/28/01		15.45	90.56	<0.5	<0.5	<0.5	<0.5	510	4.9	NA	No LPH or sheen
	11/26/01		15.45	90.56	<0.5	<0.5	<0.5	<0.5	<50	3.5	NA	No LPH or sheen
	03/07/02	108.09	9.15	98.94	<0.5	<0.5	<0.5	<0.5	<50	100	NA	No LPH or sheen
	06/10/02		11.96	96.13	<0.5	<0.5	<0.5	<0.5	<50	11	NA	No LPH or sheen
	08/26/02		15.27	92.82	<0.5	<0.5	<0.5	<0.5	<50	18	NA	No LPH or sheen
	11/27/02		16.80	91.29	<0.5	<0.5	<0.5	<0.5	<50	4.7	ND	No LPH or sheen
	02/27/03		10.20	97.89	<0.5	<0.5	<0.5	<0.5	<50	37	ND	No LPH or sheen
	05/28/03		10.11	97.98	<0.5	<0.5	<0.5	<0.5	<50	7.4	ND	No LPH or sheen
	08/11/03		12.14	95.95	<0.5	<0.5	<0.5	<0.5	<50	3.1	ND	No LPH or sheen
	11/20/03		16.09	92.00	<0.5	<0.5	<0.5	<0.5	<50	1.8	ND	No LPH or sheen
	03/12/04		8.37	99.72	<0.5	<0.5	<0.5	<0.5	<50	10	ND	No LPH or sheen
	05/01/04		10.28	97.81	<0.5	<0.5	<0.5	<0.5	<50	1.4	ND	No LPH or sheen
	07/09/04		11.32	96.77	<0.5	<0.5	<0.5	<0.5	<50	1.5	ND	No LPH or sheen
	11/19/04		11.67	96.42	<0.5	<0.5	<0.5	<0.5	<50	1.2	ND	No LPH or sheen
	02/18/05		8.37	99.72	<0.5	<0.5	<0.5	<0.5	<50	0.69	ND	No LPH or sheen
	04/29/05		8.09	100.00	<0.5	<0.5	<0.5	<0.5	<50	2.2	ND	No LPH or sheen
	07/25/05		8.61	99.48	<0.5	<0.5	<0.5	<0.5	<50	0.96	ND	No LPH or sheen

TABLE 1

**GROUND WATER MONITORING DATA**  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Old Redwood Highway  
 Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-14	08/20/98	106.64	13.91	92.73	550	240	73	1,100	6400	7,600	NA	No LPH or sheen
	11/18/98		18.75	87.89	4.7	9.8	7.0	87	660	24	NA	No LPH or sheen
	02/15/99		15.51	91.13	<0.5	<0.5	<0.5	<0.5	75	67	NA	No LPH or sheen
	05/19/99		14.12	92.52	4,500	1,400	960	4,000	34000	13,000	NA	No LPH or sheen
	09/08/99		17.77	88.87	2,400	1,100	670	3,000	28000	4,700	NA	No LPH or sheen
	11/24/99		18.70	87.94	380	100	190	310	4200	2,800	NA	No LPH or sheen
	03/15/00		12.57	94.07	1,900	670	630	2,400	30,000	12,000	NA	No LPH or sheen
	11/27/00		19.53	87.11	1,700	430	350	1,400	16,000	9,900	NA	No LPH or sheen
	02/13/01		16.84	89.80	1,100	330	240	1,000	9,900	10,000	NA	No LPH or sheen
	06/14/01		17.71	88.93	2,500	620	460	1,600	17,000	6,600	NA	No LPH or sheen
	08/28/01		19.90	86.74	2,300	540	510	1,600	17,000	7,800	NA	No LPH or sheen
	11/26/01		21.23	85.41	1,500	430	330	1,200	13,000	4,600	NA	No LPH or sheen
	03/07/02	108.31	14.51	93.80	1,700	480	570	1,800	18,000	3,400	NA	No LPH or sheen
	06/10/02		16.86	91.45	1,900	410	450	1,300	13,000	3,300	NA	No LPH or sheen
	08/26/02		19.02	89.28	15	<5.0	<5.0	<5.0	1,400	3,000	NA	No LPH or sheen
	11/27/02		21.51	86.80	680	200	210	860	15,000	4,400	620 <sup>a</sup>	No LPH or sheen
	02/27/03		15.56	92.75	490	70	72	220	4,400	2,700	430 <sup>a</sup>	No LPH or sheen
	05/28/03		15.37	92.94	430	41	52	130	3,600	1,700	400 <sup>a</sup>	No LPH or sheen
	08/11/03		17.50	90.81	25	3.8	2.1	9.6	910	960	250 <sup>a</sup>	No LPH or sheen
	11/20/03		20.21	88.10	32	2.3	<2.0	7.0	1,100	1,400	210 <sup>a</sup>	No LPH or sheen
	03/12/04		13.31	95.00	3,100	660	360	1,400	18,000	3,100	710 <sup>a</sup>	No LPH or sheen
	05/01/04		14.94	93.37	2,400	320	260	870	16,000	3,600	630 <sup>a</sup>	No LPH or sheen
	07/09/04		16.27	92.04	2,300	240	210	760	14,000	2,700	620 <sup>a</sup>	No LPH or sheen
	11/19/04		16.44	91.87	1,000	120	81	320	6,200	1,100	900 <sup>a</sup> , 0.94 <sup>b</sup> , 0.61 <sup>b</sup>	No LPH or sheen
	02/18/05		13.09	95.22	1,400	180	120	470	8,100	890	1,100 <sup>a</sup>	No LPH or sheen
	04/29/05		12.30	96.01	1,900	300	160	720	11,000	850	840 <sup>a</sup>	No LPH or sheen
	07/25/05		12.90	95.41	840	100	73	240	4,000	370	450 <sup>a</sup>	No LPH or sheen

TABLE 1

**GROUND WATER MONITORING DATA**  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Old Redwood Highway  
 Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethyl-benzene ( $\mu\text{g/L}$ )	Total Xylenes ( $\mu\text{g/L}$ )	TPH as gasoline ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	Oxygenates ( $\mu\text{g/L}$ )	Comments
MW-15	08/20/98	105.12	13.75	91.37	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/18/98		16.95	88.17	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	02/15/99		13.05	92.07	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		10.68	94.44	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	09/08/99		16.25	88.87	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/24/99		17.48	87.64	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	03/15/00		9.89	95.23	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		17.49	87.63	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	02/13/01		16.71	88.41	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/14/01		14.84	90.28	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	08/28/01		18.31	86.81	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	11/26/01		18.75	86.37	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	03/07/02	107.77	12.00	95.77	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/10/02		13.09	94.68	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	08/26/02		16.60	91.17	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	11/27/02		19.10	88.67	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	02/27/03		12.96	94.81	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/28/03		10.55	97.22	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	08/11/03		15.51	92.26	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	11/20/03		18.37	89.40	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	03/12/04		9.55	98.22	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/01/04		11.38	96.39	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	07/09/04		13.54	94.23	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	11/19/04		13.89	93.88	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	02/18/05		9.03	98.74	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	04/29/05		7.77	100.00	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	07/25/05		7.84	99.93	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen

TABLE 1

**GROUND WATER MONITORING DATA**  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Old Redwood Highway  
 Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-16	08/20/98	104.92	12.92	92.00	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/18/98		16.93	87.99	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/15/99		11.31	93.61	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		9.59	95.33	NS	NS	NS	NS	NS	NS	NS	Not sampled
	09/08/99		15.11	89.81	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/24/99		16.16	88.76	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/15/00		8.81	96.11	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		15.04	89.88	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/13/01		14.20	90.72	<0.5	<0.5	<0.5	<0.5	<50	0.56	NA	No LPH or sheen
	06/14/01		15.21	89.71	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/28/01		17.40	87.52	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/26/01		18.31	86.61	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/07/02	107.61	9.63	97.98	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	06/10/02		12.06	95.55	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/26/02		15.30	92.31	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/27/02		16.98	90.63	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		11.12	96.49	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/28/03		10.12	97.49	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/11/03		15.05	92.56	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/20/03		16.75	90.86	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/12/04		8.54	99.07	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/01/04		10.18	97.43	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/09/04		12.51	95.10	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/19/04		13.28	94.33	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/18/05		8.14	99.47	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	04/29/05		6.97	100.64	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/25/05		7.56	100.05	NS	NS	NS	NS	NS	NS	NS	Not sampled

TABLE 1

**GROUND WATER MONITORING DATA**  
**Tesoro Station No. 67062**  
**Former Beacon Station No. 3700**  
**7898 Old Redwood Highway**  
**Cotati, California**

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-17	08/20/98	103.01	12.96	90.05	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/18/98		16.91	86.10	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	02/15/99		12.19	90.82	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		11.24	91.77	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	09/08/99		15.65	87.36	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/24/99		16.61	86.40	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	03/15/00		9.06	93.95	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		16.82	86.19	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	02/13/01		14.85	88.16	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/14/01		14.60	88.41	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	08/28/01		17.56	85.45	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	11/26/01		18.40	84.61	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	03/07/02	105.66	9.84	95.82	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/10/02		12.27	93.39	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	08/26/02		15.56	90.10	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	11/27/02		19.23	86.43	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	02/27/03		13.20	92.46	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/28/03		11.39	94.27	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	08/11/03		14.60	91.06	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	11/20/03		15.95	89.71	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	03/12/04		8.01	97.65	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/01/04		9.89	95.77	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	07/09/04		12.00	93.66	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	11/19/04		12.51	93.15	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	02/18/05		7.31	98.35	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	04/29/05		6.77	98.89	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	07/25/05		5.21	100.45	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen

TABLE 1

**GROUND WATER MONITORING DATA**  
**Tesoro Station No. 67062**  
**Former Beacon Station No. 3700**  
**7898 Old Redwood Highway**  
**Cotati, California**

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-18	08/20/98	108.35	15.11	93.24	<0.5	<0.5	<0.5	<0.5	250	<5.0	NA	No LPH or sheen
	11/18/98		18.44	89.91	<0.5	<0.5	<0.5	<0.5	<50	110	NA	No LPH or sheen
	02/15/99		12.96	95.39	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		13.57	94.78	<0.5	<0.5	<0.5	<0.5	<50	1,000	NA	No LPH or sheen
	09/08/99		17.74	90.61	<0.5	<0.5	<0.5	<0.5	<50	1,100	NA	No LPH or sheen
	11/24/99		18.40	89.95	<0.5	<0.5	<0.5	<0.5	2000	2,600	NA	No LPH or sheen
	03/15/00		11.15	97.20	<2.0	<2.0	<2.0	<2.0	<200	2,900	NA	No LPH or sheen
	11/27/00		18.42	89.93	<1.0	<1.0	<1.0	<1.0	<100	2,500	NA	No LPH or sheen
	02/13/01		14.89	93.46	<1.0	<1.0	<1.0	<1.0	<100	3,400	NA	No LPH or sheen
	06/14/01		16.51	91.84	<2.0	<2.0	<2.0	<2.0	<200	780	NA	No LPH or sheen
	08/28/01		19.65	88.70	<0.5	<0.5	<0.5	<0.5	<50	340	NA	No LPH or sheen
	11/26/01		20.09	88.26	<2.5	<2.5	<2.5	<2.5	<250	1,400	NA	No LPH or sheen
	03/07/02	113.98	12.65	101.33	<0.5	<0.5	<0.5	<0.5	<50	1,300	NA	No LPH or sheen
	06/10/02		15.27	98.71	<2.5	<2.5	<2.5	<2.5	<250	1,400	NA	No LPH or sheen
	08/26/02		18.31	95.67	<2.0	<2.0	<2.0	<2.0	<200	1,000	NA	No LPH or sheen
	11/27/02		21.13	92.85	<5.0	<5.0	<5.0	<5.0	<500	1,600	55 <sup>a</sup>	No LPH or sheen
	02/27/03		13.45	100.53	<2.0	<2.0	<2.0	<2.0	<200	690	27 <sup>a</sup>	No LPH or sheen
	05/28/03		13.81	100.17	<5.0	<5.0	<5.0	<5.0	<500	1,900	ND	No LPH or sheen
	08/11/03		17.02	96.96	<2.5	<2.5	<2.5	<2.5	<250	1,200	ND	No LPH or sheen
	11/20/03		19.11	94.87	<5.0	<5.0	<5.0	<5.0	<500	2,400	ND	No LPH or sheen
	03/12/04		11.64	102.34	<2.0	<2.0	<2.0	<2.0	<200	990	ND	No LPH or sheen
	05/01/04		13.72	100.26	<1.5	<1.5	<1.5	<1.5	<200	910	ND	No LPH or sheen
	07/09/04		15.44	98.54	<2.0	<2.0	<2.0	<2.0	<200	800	ND	No LPH or sheen
	11/19/04		15.47	98.51	<0.5	<0.5	<0.5	<0.5	<50	1,200	0.54 <sup>c</sup>	No LPH or sheen
	02/18/05		11.46	102.52	<0.5	3.9	<0.5	<0.5	<50	350	ND	No LPH or sheen
	04/29/05		11.36	102.62	<2.5	<2.5	<2.5	<2.5	<250	1,100	ND	No LPH or sheen
	07/25/05		10.96	103.02	<1.0	<1.0	<1.0	<1.0	<100	580	ND	No LPH or sheen

**TABLE 1**  
**GROUND WATER MONITORING DATA**  
**Tesoro Station No. 67062**  
**Former Beacon Station No. 3700**  
**7898 Old Redwood Highway**  
**Cotati, California**

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-19	08/20/98	106.43	11.74	94.69	NA	NA	NA	NA	NA	NA	NA	Laboratory error
	11/18/98		14.64	91.79	<50	<50	<50	<50	<5,000	26,000	NA	No LPH or sheen
	02/15/99		10.94	95.49	<0.5	<0.5	<0.5	<0.5	<50	360	NA	No LPH or sheen
	05/19/99		10.79	95.64	<0.5	<0.5	<0.5	<0.5	<50	9,300	NA	No LPH or sheen
	09/08/99		17.20	89.23	<0.5	<0.5	<0.5	<0.5	<50	3,100	NA	No LPH or sheen
	11/24/99		14.84	91.59	<10	<10	<10	<10	2,800	4,100	NA	No LPH or sheen
	03/15/00		8.40	98.03	<50	<50	<50	<50	<5,000	48,000	NA	No LPH or sheen
	11/27/00		15.65	90.78	<2.0	<2.0	<2.0	<2.0	<200	1,800	NA	Laboratory error
	02/13/01		12.24	94.19	<1.0	<1.0	<1.0	<1.0	<100	450	NA	Laboratory error
	06/14/01		13.07	93.36	<0.5	<0.5	<0.5	<0.5	<50	220	NA	No LPH or sheen
	08/28/01		15.90	90.53	<0.5	<0.5	<0.5	<0.5	<50	160	NA	No LPH or sheen
	11/26/01		16.01	90.42	<1.0	<1.0	<1.0	<1.0	<100	480	NA	No LPH or sheen
	03/07/02	108.49	9.39	99.10	<10	<10	<10	<10	<1,000	3,500	NA	No LPH or sheen
	06/10/02		12.55	95.94	<1.0	<1.0	<1.0	<1.0	<100	490	NA	No LPH or sheen
	08/26/02		16.11	92.38	<0.5	<0.5	<0.5	<0.5	<50	240	NA	No LPH or sheen
	11/27/02		17.50	90.99	<0.5	<0.5	<0.5	<0.5	<50	360	ND	No LPH or sheen
	02/27/03		10.54	97.95	<0.5	<0.5	<0.5	<0.5	<50	99	ND	No LPH or sheen
	05/28/03		11.35	97.14	<0.5	<0.5	<0.5	<0.5	<50	65	ND	No LPH or sheen
	08/11/03		13.46	95.03	<0.5	<0.5	<0.5	<0.5	<50	77	ND	No LPH or sheen
	11/20/03		16.52	91.97	<0.5	<0.5	<0.5	<0.5	<50	77	ND	No LPH or sheen
	03/12/04		8.87	99.62	<0.5	<0.5	<0.5	<0.5	<50	250	11 <sup>a</sup>	No LPH or sheen
	05/01/04		10.77	92.72	<0.5	<0.5	<0.5	<0.5	<50	92	ND	No LPH or sheen
	07/09/04		11.98	96.51	<0.5	<0.5	<0.5	<0.5	<50	210	ND	No LPH or sheen
	11/19/04		12.62	95.87	<0.5	<0.5	<0.5	<0.5	<50	78	ND	No LPH or sheen
	02/18/05		9.41	99.08	<0.5	<0.5	<0.5	<0.5	<50	170	ND	No LPH or sheen
	04/29/05		9.40	99.09	<0.5	<0.5	<0.5	<0.5	<50	1,000	560 <sup>a</sup>	No LPH or sheen
	07/25/05		9.31	99.18	<2.5	<2.5	<2.5	<2.5	<250	1,100	ND	No LPH or sheen

TABLE 1

**GROUND WATER MONITORING DATA**  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Old Redwood Highway  
 Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-20	08/20/98	105.91	11.69	94.22	<0.5	<0.5	<0.5	<0.5	250	<5.0	NA	No LPH or sheen
	11/18/98		14.64	91.27	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	02/15/99		10.31	95.60	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		10.06	95.85	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	09/08/99		13.93	91.98	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/24/99		15.09	90.82	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	03/15/00		8.01	97.90	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		15.80	90.11	<0.5	<0.5	<0.5	<0.5	<50	1.6	NA	No LPH or sheen
	02/13/01		12.93	92.98	<0.5	<0.5	<0.5	<0.5	<50	1.8	NA	No LPH or sheen
	06/14/01		13.71	92.20	<0.5	<0.5	<0.5	<0.5	<50	1.1	NA	No LPH or sheen
	08/28/01		16.08	89.83	<0.5	<0.5	<0.5	<0.5	<50	2.3	NA	No LPH or sheen
	11/26/01		16.52	89.39	<0.5	<0.5	<0.5	<0.5	<50	1.6	NA	No LPH or sheen
	03/07/02	108.01	9.85	98.16	<0.5	<0.5	<0.5	<0.5	<50	1.0	NA	No LPH or sheen
	06/10/02		12.52	95.49	<0.5	<0.5	<0.5	<0.5	<50	1.8	NA	No LPH or sheen
	08/26/02		15.75	92.26	<0.5	<0.5	<0.5	<0.5	<50	1.3	NA	No LPH or sheen
	11/27/02		17.24	90.77	<0.5	<0.5	<0.5	<0.5	<50	1.2	ND	No LPH or sheen
	02/27/03		10.85	97.16	<0.5	<0.5	<0.5	<0.5	<50	1.2	ND	No LPH or sheen
	05/28/03		10.43	97.58	<0.5	<0.5	<0.5	<0.5	<50	1.6	ND	No LPH or sheen
	08/11/03		12.94	95.07	<0.5	<0.5	<0.5	<0.5	<50	1.4	ND	No LPH or sheen
	11/20/03		16.58	91.43	<0.5	<0.5	<0.5	<0.5	<50	1.1	ND	No LPH or sheen
	03/12/04		8.35	99.66	<0.5	<0.5	1.6	1.1	170	1.4	ND	No LPH or sheen
	05/01/04		10.36	97.65	<0.5	<0.5	1.4	1.0	150	1.5	ND	No LPH or sheen
	07/09/04		11.66	96.35	<0.5	<0.5	1.3	0.62	150	1.2	ND	No LPH or sheen
	11/19/04		12.03	95.98	<0.5	<0.5	0.53	<0.5	78	1.2	ND	No LPH or sheen
	02/18/05		8.30	99.71	<0.5	<0.5	<0.5	<0.5	<50	0.95	ND	No LPH or sheen
	04/29/05		7.74	100.27	<0.5	<0.5	<0.5	<0.5	80	1.0	ND	No LPH or sheen
	07/25/05		8.24	99.77	<0.5	<0.5	6.0	5.5	690	1.1	ND	No LPH or sheen

1  
S. 6 a

TABLE 1

**GROUND WATER MONITORING DATA**  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Old Redwood Highway  
 Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
RW-1	08/20/98	105.17	13.43	91.74	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/18/98		16.68	88.49	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/15/99		13.17	92.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		12.89	92.28	NS	NS	NS	NS	NS	NS	NS	Not sampled
	09/08/99		16.01	89.16	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/24/99		17.14	88.03	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/15/00		8.81	96.36	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		17.21	87.96	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/13/01		16.20	88.97	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/14/01		17.17	88.00	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/28/01		19.51	85.66	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/26/01		19.92	85.25	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/07/02	107.35	11.03	96.32	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/10/02		13.98	93.37	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/26/02		16.90	90.45	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/27/02		18.42	88.93	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		12.50	94.85	<0.5	<0.5	<0.5	<0.5	<50	<0.5	3.8 <sup>b</sup>	No LPH or sheen
	05/28/03		12.10	95.25	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/11/03		14.21	93.14	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/20/03		17.80	89.55	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/12/04		8.82	98.53	<0.5	<0.5	<0.5	<0.5	<50	<0.5	7.9 <sup>b</sup>	No LPH or sheen
	05/01/04		10.70	96.65	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/09/04		13.05	94.30	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/19/04		13.62	93.72	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/18/05		8.45	98.90	<0.5	<0.5	<0.5	<0.5	<50	<0.5	8.6 <sup>b</sup>	No LPH or sheen
	04/29/05		7.25	100.10	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/25/05		7.21	100.14	NS	NS	NS	NS	NS	NS	NS	Not sampled

TABLE I

**GROUND WATER MONITORING DATA**  
**Tesoro Station No. 67062**  
**Former Beacon Station No. 3700**  
**7898 Old Redwood Highway**  
**Cotati, California**

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
RW-2	08/20/98	105.22	14.34	90.88	47	3.5	12	27	310	480	NA	No LPH or sheen
	11/18/98		65.31	39.91	660	77	210	860	4900	1,100	NA	No LPH or sheen
	02/15/99		65.51	39.71	<0.5	<0.5	<0.5	0.65	<50	510	NA	No LPH or sheen
	05/19/99		12.55	92.67	200	10	2.9	130	2900	4,500	NA	No LPH or sheen
	09/08/99		25.41	79.81	680	70	24	460	3100	980	NA	No LPH or sheen
	11/24/99		25.45	79.77	660	27	12	220	3500	1,000	NA	No LPH or sheen
	03/15/00		23.84	81.38	120	45	12	360	3,500	890	NA	No LPH or sheen
	11/27/00		30.56	74.66	3.6	<1.0	<1.0	2.3	<100	640	NA	No LPH or sheen
	02/13/01		30.68	74.54	<2.0	<2.0	<2.0	2.6	<200	510	NA	No LPH or sheen
	06/14/01		33.60	71.62	19	0.73	<0.5	3.7	61	220	NA	No LPH or sheen
	08/28/01		34.70	70.52	15	0.5	<0.5	1.7	<50	240	NA	No LPH or sheen
	11/26/01		34.10	71.12	12	<1.0	<1.0	<1.0	<100	320	NA	No LPH or sheen
	03/07/02	107.81	35.10	72.71	22	<1.0	1.3	2.6	130	560	NA	No LPH or sheen
	06/10/02		23.90	83.91	91	9.9	<1.0	160	760	330	NA	No LPH or sheen
	08/26/02		15.10	92.71	<20	<20	<20	<20	<2,000	12,000	NA	No LPH or sheen
	11/27/02		35.10	72.71	14	<2.0	<2.0	<2.0	<200	730	67 <sup>a</sup>	No LPH or sheen
	02/27/03		29.90	77.91	<1.5	<1.5	<1.5	47	380	610	69 <sup>a</sup>	No LPH or sheen
	05/28/03		26.10	81.71	270	16	7.9	110	2,000	510	92 <sup>a</sup>	No LPH or sheen
	08/11/03		30.31	77.50	3.3	<1.0	<1.0	4.4	<100	340	33 <sup>a</sup>	No LPH or sheen
	11/20/03		27.30	80.51	1.5	<0.5	<0.5	<0.5	<50	330	17 <sup>a</sup>	No LPH or sheen
	03/12/04		15.59	92.22	58	2.8	<0.5	17	400	380	46 <sup>a</sup>	No LPH or sheen
	05/01/04		14.30	93.51	<0.5	<0.5	<0.5	<0.5	<50	320	49 <sup>a</sup>	No LPH or sheen
	07/09/04		20.44	87.37	83	3.3	1.1	28	410	400	42 <sup>a</sup>	No LPH or sheen
	11/19/04		15.67	92.14	<0.5	<0.5	<0.5	<0.5	<50	180	8.2 <sup>a</sup>	No LPH or sheen
	02/18/05		10.23	97.58	<0.5	<0.5	<0.5	<0.5	<50	24	ND	No LPH or sheen
	04/29/05		9.08	98.73	<0.5	<0.5	<0.5	<0.5	<50	150	18 <sup>a</sup>	No LPH or sheen
	07/25/05		8.68	99.13	<0.5	<0.5	<0.5	<0.5	<50	86	20 <sup>a</sup>	No LPH or sheen

TABLE 1

**GROUND WATER MONITORING DATA**  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Old Redwood Highway  
 Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
RW-3A	08/20/98	105.72	11.68	94.04	<50	<50	<50	<50	<5,000	17,000	NA	No LPH or sheen
	11/18/98		38.01	67.71	220	120	240	1,100	7400	22,000	NA	No LPH or sheen
	02/15/99		37.80	67.92	80	<25	<25	280	<2,500	30,000	NA	No LP II or sheen
	05/19/99		39.35	66.37	<5.0	<5.0	<5.0	<5.0	<500	30,000	NA	No LP II or sheen
	09/08/99		31.40	74.32	380	31	150	810	5300	39,000	NA	No LPH or sheen
	11/24/99		24.55	81.17	280	14	110	450	18000	24,000	NA	No LPH or sheen
	03/15/00		21.80	83.92	140	30	99	890	6,700	17,000	NA	No LP II or sheen
	11/27/00		29.80	75.92	83	<50	<50	<50	<5,000	23,000	NA	No LP II or sheen
	02/13/01		31.06	74.66	71	<20	32	200	<2,000	16,000	NA	No LP II or sheen
	06/14/01		26.90	78.82	79	<25	42	150	<5,000	12,000	NA	No LPH or sheen
	08/28/01		28.71	77.01	150	<25	73	110	<5,000	18,000	NA	No LPH or sheen
	11/26/01		35.60	70.12	39	<25	<25	<25	<5,000	12,000	NA	No LPH or sheen
	03/07/02	108.68	33.91	74.77	87	<50	<50	84	<5,000	28,000	NA	No LP II or sheen
	06/10/02		33.10	75.58	110	<50	<50	88	<5,000	16,000	NA	No LPH or sheen
	08/26/02		31.06	77.62	34	<25	<25	<25	<2,500	17,000	NA	No LP II or sheen
	11/27/02		34.10	74.58	<50	<50	<50	<50	<5,000	20,000	2,800 <sup>a</sup>	No LPH or sheen
	02/27/03		35.36	73.32	100	<25	30	72	<2,500	9,800	2,300 <sup>a</sup>	No LPH or sheen
	05/28/03		36.10	72.58	110	<20	26	35	2,100	7,100	2,200 <sup>a</sup>	No LP II or sheen
	08/11/03		34.60	74.08	35	<10	<10	16	1,200	4,300	3,200 <sup>a</sup>	No LPH or sheen
	11/20/03		35.93	72.75	20	<5.0	<5.0	<5.0	700	3,200	3,400 <sup>a</sup>	No LPH or sheen
	03/12/04		21.56	87.12	40	3.5	7.0	43	920	2,800	2,600 <sup>a</sup> , 1.4 <sup>c</sup>	No LPH or sheen
	05/01/04		23.46	85.22	40	<5.0	<5.0	20	650	2,300	3,100 <sup>a</sup>	No LPH or sheen
	07/09/04		25.13	83.55	38	<5.0	<5.0	13	760	1,300	3,200 <sup>a</sup>	No LP II or sheen
	11/19/04		35.14	73.54	18	0.91	1.7	5.4	630	390	2,900 <sup>a</sup>	No LP II or sheen
	02/18/05		22.34	86.34	74	4.3	9.7	32	1,100	410	2,500 <sup>a</sup>	No LPH or sheen
	04/29/05		27.51	81.17	60	3.8	8.3	26	1,300	440	1,900 <sup>a</sup>	No LP II or sheen
	07/25/05		25.87	82.81	33	1.7	3.4	9.8	740	300	2600 <sup>a</sup>	No LPH or sheen

Reference Elevation = Reference elevation mean sea level.

TPH = Total petroleum hydrocarbons.

MTBE = Methyl tertiary butyl ether.

LP II = Liquid-phase petroleum hydrocarbons.

µg/L = Micrograms per liter.

NA = Not analyzed.

NS = Not sampled.

a = tert-butanol

b = diisopropyl ether

c = Tert-amyl methyl ether

Table 2  
 Ground Water System Performance Data Sheet  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Redwood Highway  
 Cotati, California

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)								
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	Copper	Lead	Zinc
10/5/2000	1,681,191	0	Influent	140	<20	44	210	<2,000	NA	NA	NA	NA
			Effluent	3.5	0.52	<0.5	1.7	<50	NA	<20	<5.0	63
10/16/2000	1,684,990	3,799	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/4/2000	1,689,910	4,920	Influent	14	<10	<10	12	<1,000	NA	NA	NA	NA
			Effluent	<1.0	<1.0	<1.0	<1.0	<100	NA	<20	<5.0	<50
11/16/2000	1,694,820	4,910	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/5/2000	1,703,710	8,890	Influent	60	<10	13	100	1,500	NA	NA	NA	NA
			Effluent	0.77	<0.5	<0.5	0.77	<50	NA	<20	<5.0	<50
12/19/2000	1,709,840	6,130	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1/4/2001	1,717,660	7,820	Influent	45	11	<10	37	<1,000	NA	NA	NA	NA
			Effluent	<1.0	<1.0	<1.0	<1.0	<100	NA	<20	<5.0	<50
1/29/2001	1,730,800	13,140	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/8/2001	1,737,700	6,900	Influent	73	<10	25	140	1,800	NA	NA	NA	NA
			Effluent	<1.0	<1.0	<1.0	<2.0	<100	NA	<20	<5.0	<50
2/21/2001	1,747,270	9,570	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/6/2001	1,760,200	12,930	Influent	25	<10	<10	100	2,100	NA	NA	NA	NA
			Effluent	1.2	<1.0	<1.0	3.9	<100	NA	<20	<5.0	27
3/17/2001	1,772,190	11,990	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/7/2001	1,790,740	18,550	Influent	26	<1.0	1.9	14	190	NA	NA	NA	NA
			Effluent	<1.0	<1.0	<1.0	<1.0	<100	NA	<20	<5.0	<50
4/18/2001	1,798,540	7,800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/13/2001	1,815,100	16,560	Influent	<2.0	<2.0	<2.0	4.7	<200	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<50
5/22/2001	1,820,750	5,650	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2  
 Ground Water System Performance Data Sheet  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Redwood Highway  
 Cotati, California

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter ( $\mu\text{g/L}$ )								
				Benzene	Toluene	Ethyl-Benzene	Xylenes	Total	TPHg <sup>a</sup>	MTBE <sup>b</sup>	Copper	Lead
6/4/2001	1,828,240	7,490	Influent	50	<20	<20	52	<2,000	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<50
6/15/2001	1,834,470	6,230	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
7/2/2001	1,843,090	8,620	Influent	11	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	250
7/22/2001	1,851,450	8,360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Effluent	<0.5	<0.5	<0.5	<0.5	<500	NA	NA	NA	NA
8/10/2001	1,858,200	6,750	Influent	11	<0.5	<0.5	7.2	<500	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	34	<5.0	<50
8/24/2001	1,862,940	4,740	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	70
9/11/2001	1,865,600	2,660	Influent	12	0.79	0.86	2.6	180	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<50
9/26/2001	1,874,280	8,680	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<20
10/5/2001	1,875,950	1,670	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<20
10/24/2001	1,880,160	4,210	Influent	<2.0	<2.0	<2.0	<2.0	<200	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<50
11/1/2001	1,881,160	1,000	Influent	13	<2.5	4.9	4	<250	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<20
11/16/2001	1,882,110	950	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<1,000	NA	NA	NA
12/15/2001	1,883,160	1,050	Influent	26	<10	<10	58	<1,000	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<20
12/26/2001	1,886,480	3,320	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<50
01/08/02	1,898,690	12,210	Influent	20	<5.0	<5.0	38	840	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<50
01/24/02	1,916,130	17,440	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
02/11/02	1,929,910	13,780	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2  
 Ground Water System Performance Data Sheet  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Redwood Highway  
 Cotati, California

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)								
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	Copper	Lead	Zinc
02/17/02	1,934,440	4,530	Influent	<20	<20	<20	<20	<2,000	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<50	<50	NA	<20	<5.0	<50
03/03/02	1,942,660	8,220	Influent	<25	<25	<25	<25	<2,500	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<20
03/15/02	1,948,210	5,550	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
04/05/02	1,963,310	15,100	Influent	<20	<20	<20	<20	<2,000	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	NR	NR	NR
04/19/02	1,967,670	4,360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/03/02	1,969,670	2,000	Influent	<1.0	<1.0	<1.0	<1.0	<100	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	32.8	<10	37.2
05/31/02	1,981,370	11,700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
06/13/02	1,991,860	10,490	Influent	96	<5.0	<5.0	78	770	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	10.3	<5.0	27.1
06/27/02	1,992,987	1,127	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
07/01/02	1,996,480	3,493	Influent	<5.0	<5.0	<5.0	<5.0	<500	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<5.0	<5.0	18.1
07/24/02	2,000,840	4,360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
08/12/02	2,001,070	230	Influent	13	<10	<10	12	<1,000	16,000	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<5.0	<10	10.6
08/26/02	2,001,070	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
09/13/02	2,001,070	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
09/30/02	2,001,265	195	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/14/02	2,003,260	1,995	Influent	<20	<20	<20	<20	<2,000	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	9.53	<10	69.7
10/30/02	2,006,340	3,080	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2  
 Ground Water System Performance Data Sheet  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Redwood Highway  
 Cotati, California

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter ( $\mu\text{g/L}$ )								
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	Copper	Lead	Zinc
11/17/02	2,010,780	4,440	Influent	<10	<10	<10	<10	<1,000	5,500	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	4.1	<5.0	<10	32.1
11/25/02	2,012,700	1,920	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/05/02	2,013,480	780	Influent	65	<25	<25	51	<2,500	11,000	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	2.4	<5.0	<10	21.8
12/26/02	2,021,480	8,000	Influent	53	4.9	20	70	1,500	6,600	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.98	<5.0	<10	<10
01/20/03	2,045,230	23,750	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
01/31/03	2,057,600	12,370	Influent	53	4.9	20	70	1,500	6,600	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.98	<5.0	<10	<10
02/11/03	2,069,230	11,630	Influent	47	<10	15	40	<1,000	5,300	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<5.0	<10	<10
02/22/03	2,081,120	11,890	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
03/01/03	2,088,990	7,870	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
03/30/03	2,119,590	30,600	Influent	95	<10	18	55	<1,000	4,900	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	9.9	<5.0	<10	<10
04/16/03	2,132,040	12,450	Influent	120	<20	<20	58	<2,000	5,000	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	7.4	<5.0	<10	20.6
04/28/03	2,132,940	900	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/17/03	2,132,940	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/28/03	2,132,940	0	Influent	<0.5	<0.5	<0.5	52	1,000	2,900	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	2.9	6.08	<10	43.8
06/01/03	0	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
06/10/03	11,180	11,180	Influent	170	7.4	13	48	780	730	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	86	3.7	<5.0	<10	55.8

Table 2  
 Ground Water System Performance Data Sheet  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Redwood Highway  
 Cotati, California

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)								
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	Copper	Lead	Zinc
06/24/03	22,940	11,760	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
07/11/03	41,750	18,810	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
07/18/03	47,810	6,060	Influent	25	<10	<10	<10	<1,000	3,800	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	2.0	<5.0	<10	71.6
08/01/03	58,510	58,510	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
08/17/03	69,080	10,570	Influent	3.8	<0.5	<0.5	0.93	<50	360	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	2.8	<5.0	<10	20
09/06/03	77,732	8,652	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
09/19/03	87,640	9,908	Influent	1.7	<0.5	<0.5	1.5	240	3,600	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	4.2	<5.0	<10	21.5
10/18/03	100,420	12,780	Influent	5.3	<5.0	<5.0	<5.0	<500	2,400	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	2.6	7.78	<10	34.2
10/25/03	103,030	2,610	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/16/03	104,830	1,800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/30/03	105,440	610	Influent	28	<2.5	<2.5	<2.5	390	1,900	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<10	39.2
12/09/03	105,480	40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/19/03	109,610	4,130	Influent	31	<5.0	<5.0	10	<500	1,800	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	1.8	5.68	<10	<10
01/21/04	134,700	25,090	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
01/30/04	142,060	7,360	Influent	28	<5.0	<5.0	20	720	2,300	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.93	<5.0	<10	14.9
02/10/04	150,590	8,530	Influent	6.4	<1.0	<1.0	2.1	100	510	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	13	<5.0	<10	42.4
02/18/04	151,450	860	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
03/12/04	162,720	11,270	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Table 2**  
**Ground Water System Performance Data Sheet**  
**Tesoro Station No. 67062**  
**Former Beacon Station No. 3700**  
**7898 Redwood Highway**  
**Cotati, California**

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)								
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	Copper	Lead	Zinc
03/25/04	173,868	23,278	Influent	15	<5.0	<5.0	15	630	1,800	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	1.5	5.7	<10	142
03/25/04	173,868	22,418	Influent	15	<5.0	<5.0	15	630	1,800	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	1.5	5.7	<10	142
04/21/04	188,333	14,465	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
04/29/04	191,520	3,187	Influent	25	<5.0	<5.0	19	1,000	2,200	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<10	214
05/10/04	197,427	5,907	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/25/04	202,441	5,014	Influent	16	<1.5	<1.5	3.3	480	360	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<10	126
06/14/04	213,108	10,667	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
06/22/04	217,726	4,618	Influent	22	<2.0	<2.0	7.7	630	1,200	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<10	37
07/01/04	222,469	4,743	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
07/28/04	231,777	9,308	Influent	5.5	<0.5	0.64	1.9	410	71	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	8.96	<10	321
08/04/04	234,314	2,537	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
08/30/04	234,510	196	Influent	12	<1.5	<1.5	2.2	320	780	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<10	31.6
09/11/04	234,990	480	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
09/20/04	236,353	1,363	Influent	4.9	<1.5	<1.5	4.2	400	720	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	28.10	15.1	5,270
10/13/04	236,360	7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/28/04	236,360	0	Influent	11	<1.5	<1.5	5.9	490	570	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	7.70	<10	1,650
11/11/04	237,224	864	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/22/04	237,530	306	Influent	9.0	<0.9	1.6	5.5	600	450	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	6.72	<10	624

Table 2  
 Ground Water System Performance Data Sheet  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Redwood Highway  
 Cotati, California

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)								
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	Copper	Lead	Zinc
12/07/04	237,808	278	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/26/04	245,700	7,892	Influent	28	1.6	3.4	7.9	790	440	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<10	94.9
01/05/05	250,150	4,450	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
01/27/05	255,170	5,020	Influent	20	1.6	2.8	30	820	430	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<10	25.9
02/16/05	255,770	600	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
02/27/05	260,010	4,240	Influent	56	3.8	7.2	23	980	440	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<10	34.8
03/07/05	267,468	7,458	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
03/24/05	278,100	10,632	Influent	45	2.9	4.8	30	1,300	370	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.9	<5.0	<10	<10
04/08/05	282,320	4,220	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
04/25/05	286,190	3,870	Influent	38	2.6	3.6	19	1,100	430	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	1.8	10.40	<10	31.7
05/03/05	286,880	690	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/12/05	286,880	0	Influent	54	3.4	9.1	21	1,200	320	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	1.7	<5.0	<10	<10
06/01/05	286,885	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
06/28/05	287,240	355	Influent	16	1.1	1.8	8.8	990	310	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	1.6	<5.0	<10	41.8
07/11/05	287,249	9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
07/21/05	287,249	0	Influent	16	0.91	2.1	7.2	730	260	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.82	5.0	<10	27.5
08/02/05	288,122	873	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
08/14/05	288,562	440	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2  
 Ground Water System Performance Data Sheet  
 Tesoro Station No. 67062  
 Former Beacon Station No. 3700  
 7898 Redwood Highway  
 Cotati, California

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter ( $\mu\text{g/l}$ )								
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	Copper	Lead	Zinc
08/29/05	289,360	798	Influent	17	0.99	1.4	5.8	740	260	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<10	91.9
09/13/05	289,360	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Influent	15	<0.90	1.3	3.2	480	250	NA	NA	NA
09/26/05	289,810	450	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	2.0	<5.0	<10	160.0
<b>Total =</b>				<b>2,422,750</b>								

Notes:

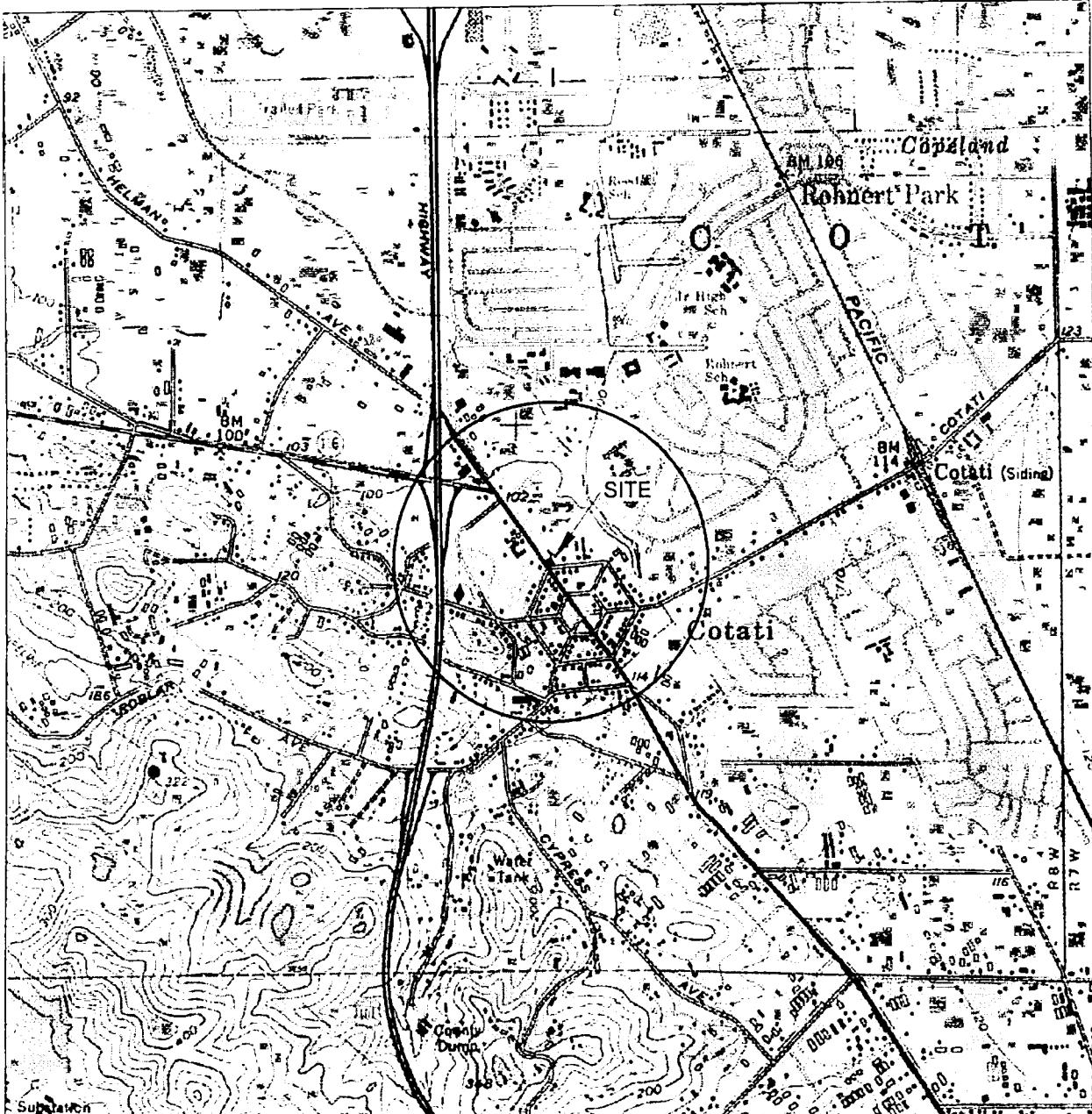
a) Total Petroleum Hydrocarbons as gasoline

b) Methyl-t-butyl ether

NS = Not Sampled

NA = Not Analyzed

NR = Not Reported



## GENERAL NOTES

BASE MAP FROM U.S.G.S.

COTATI, CA.

7.5 MINUTE TOPOGRAPHIC

PHOTOREVISED 1980



#### QUADRANGLE LOCATION

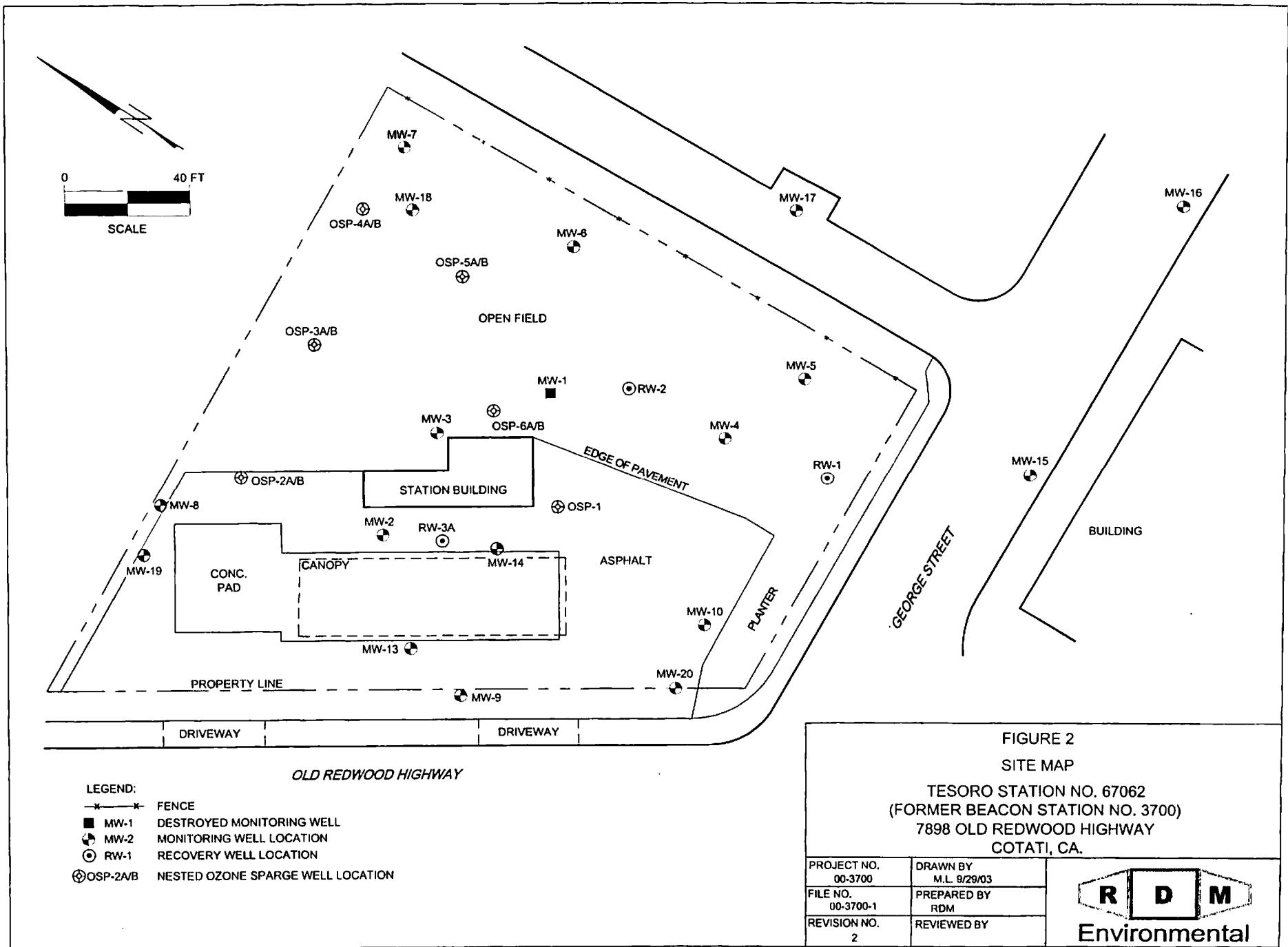
A scale bar at the bottom left shows a horizontal line divided into four segments: the first two are white, and the last two are black. Above the bar, the text "0" is on the left and "2000 FT" is on the right. Below the bar, the text "SCALE 1:24,000" is centered.

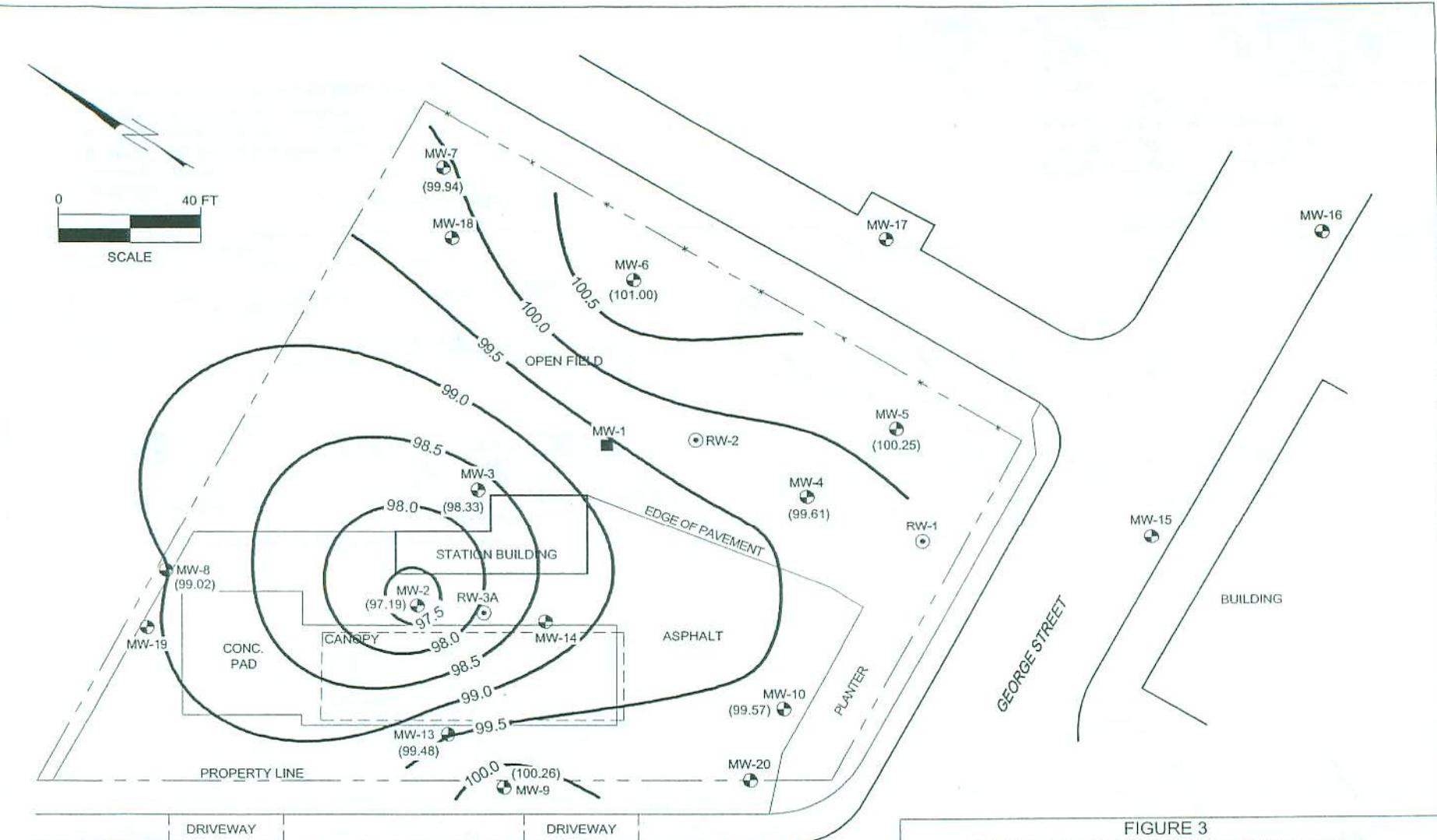
**FIGURE 1**  
**SITE LOCATION MAP**

PROJECT NO. 00-3700	DRAWN BY M.L. 13/02	 <b>R    D    M</b>
FILE NO. 00-3700-001	PREPARED BY RDM	
REVISION NO. 1	REVIEWED BY	

**Environmental**







OLD REDWOOD HIGHWAY

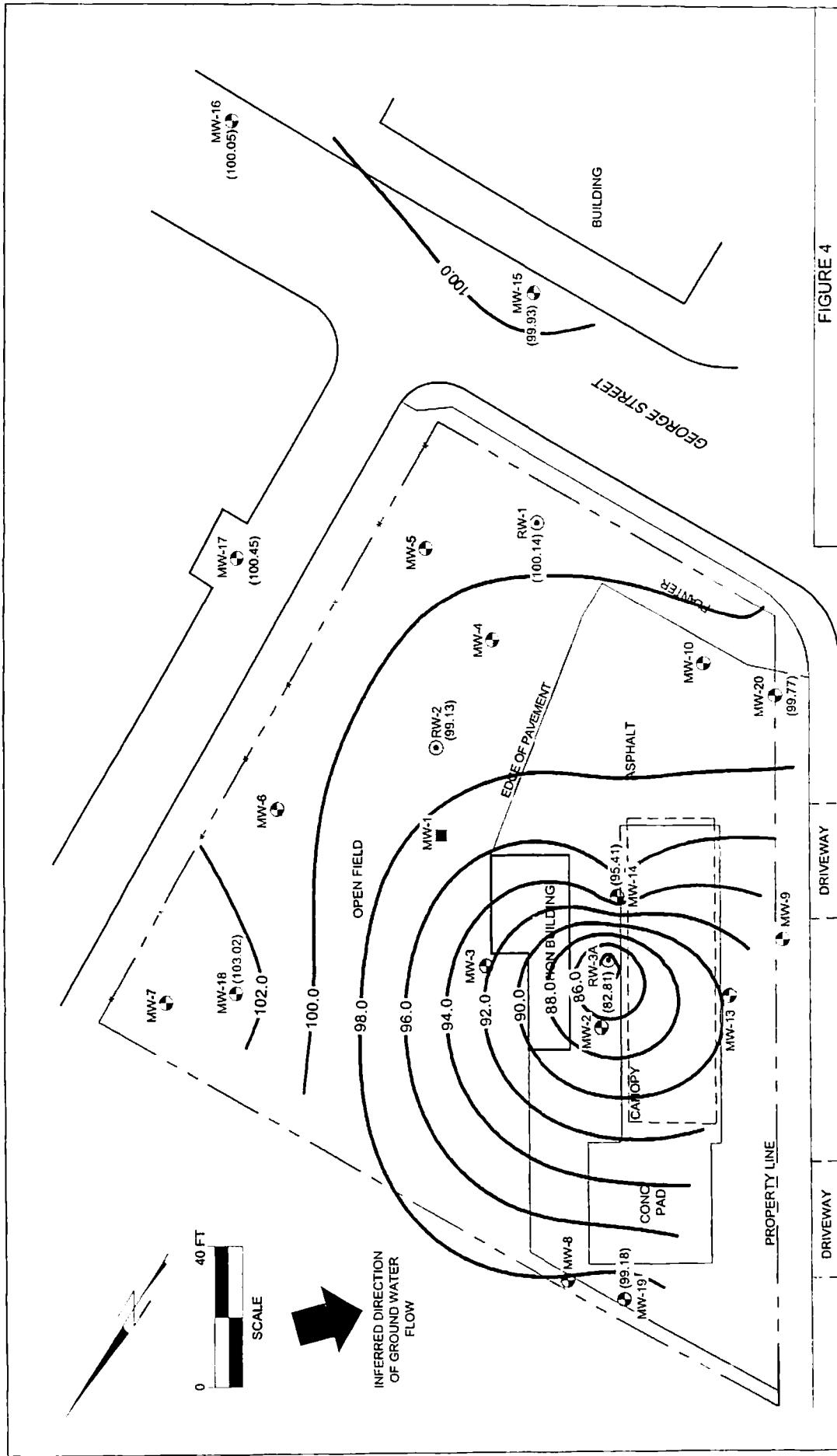
LEGEND:

- \* — FENCE
- MW-1 DESTROYED MONITORING WELL
- MW-2 MONITORING WELL LOCATION
- RW-1 RECOVERY WELL LOCATION
- (97.19) GROUND WATER ELEVATION IN FEET ABOVE  
MEAN SEA LEVEL (MSL)
- 99.0 — WATER TABLE CONTOUR IN FEET ABOVE MSL

INFERRED DIRECTION  
OF GROUND WATER  
FLOW

FIGURE 3  
GROUND WATER ELEVATION CONTOUR MAP  
ZONE A - 7/25/05  
TESORO STATION NO. 67062  
(FORMER BEACON STATION NO. 3700)  
7898 OLD REDWOOD HIGHWAY  
COTATI, CA.

PROJECT NO. 00-3700	DRAWN BY M.L. 10/19/05	
FILE NO. 00-3700-1	PREPARED BY RDM	
REVISION NO. 1	REVIEWED BY	



**FIGURE 4**  
GROUND WATER ELEVATION CONTOUR MAP  
ZONE B - 7/25/05  
TESORO STATION NO. 67062  
(FORMER BEACON STATION NO. 3700)  
7898 OLD REDWOOD HIGHWAY  
COTATI, CA.

PROJECT NO. 00-3700	DRAWN BY M.L. 10/19/05
FILE NO. 00-3700-1	PREPARED BY ROM
REVISION NO. 1	REVIEWED BY
	<b>M</b>

— 94.0 — WATER TABLE CONTOUR IN FEET ABOVE MSL

— 94.0 — GROUND WATER ELEVATION IN FEET ABOVE MSL

— 94.0 — MEAN SEA LEVEL (MSL)

— 94.0 — RECOVERY WELL LOCATION

— 94.0 — DESTROYED MONITORING WELL

— 94.0 — MONITORING WELL LOCATION

— 94.0 — FENCE

— 94.0 — PROPERTY LINE

— 94.0 — DRIVEWAY

— 94.0 — OLD REDWOOD HIGHWAY

— 94.0 — CATOPRY

— 94.0 — CONC PAD

— 94.0 — EDGE OF PAVEMENT

— 94.0 — ASPHALT

— 94.0 — BUILDING

— 94.0 — 88.0' HIGH BUILDING

— 94.0 — EDGE OF PAVEMENT

— 94.0 — OPEN FIELD

— 94.0 — GEORGE STREET

— 94.0 — MW-1

— 94.0 — MW-2

— 94.0 — MW-3

— 94.0 — MW-4

— 94.0 — MW-5

— 94.0 — MW-6

— 94.0 — MW-7

— 94.0 — MW-8

— 94.0 — MW-9

— 94.0 — MW-10

— 94.0 — MW-11

— 94.0 — MW-12

— 94.0 — MW-13

— 94.0 — MW-14

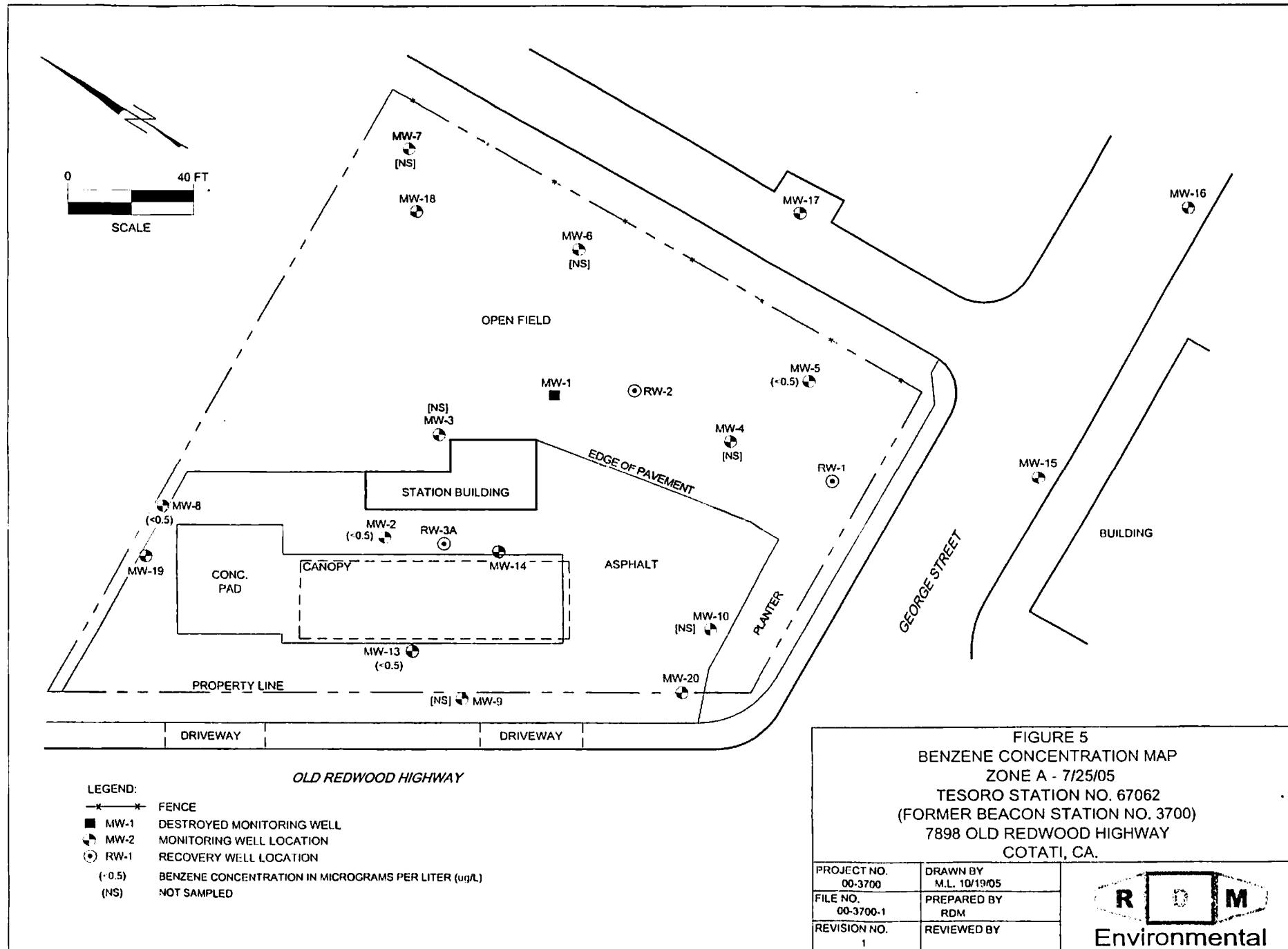
— 94.0 — MW-15

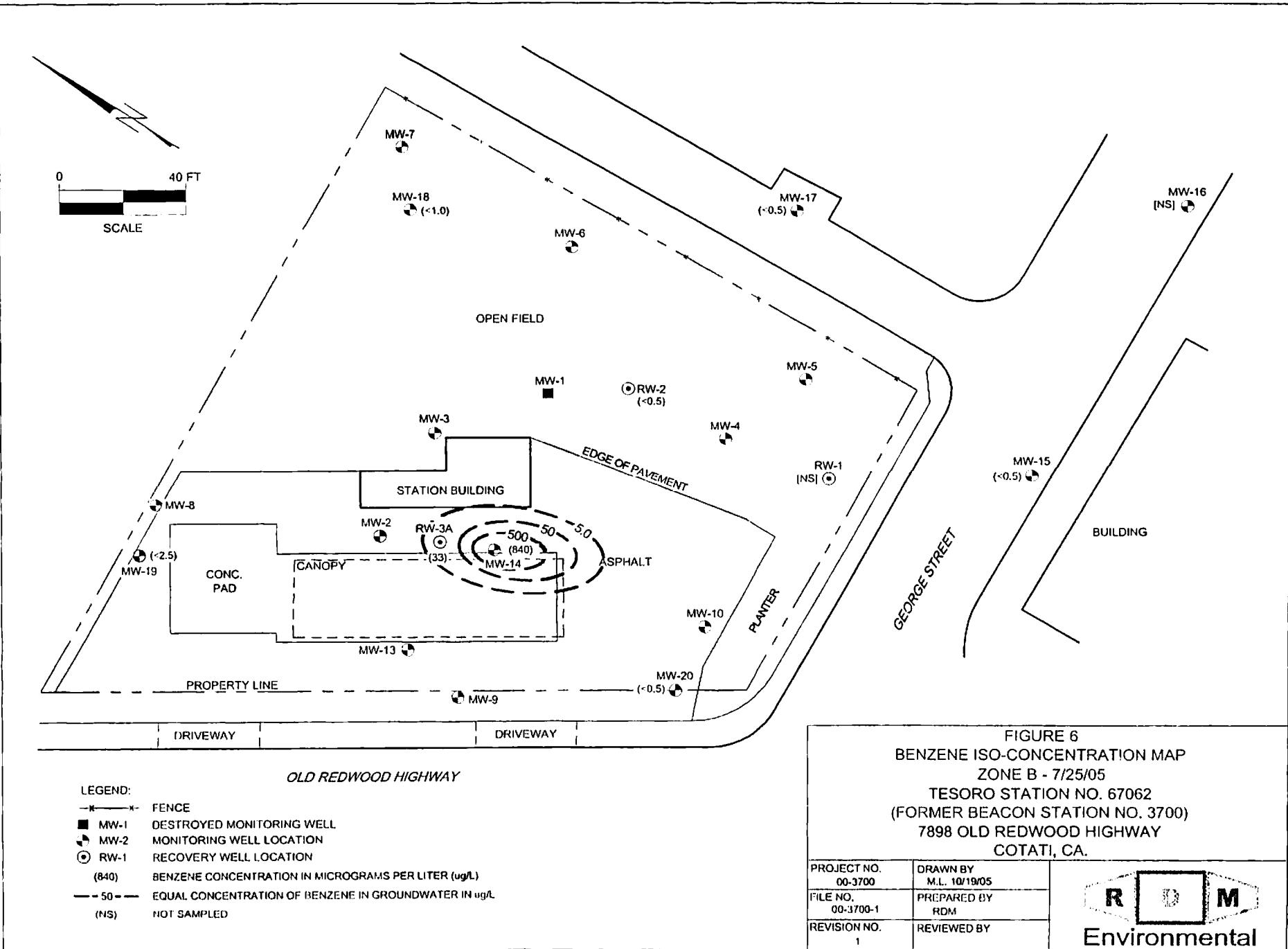
— 94.0 — MW-16

— 94.0 — MW-17

— 94.0 — MW-18

— 94.0 — RW-1





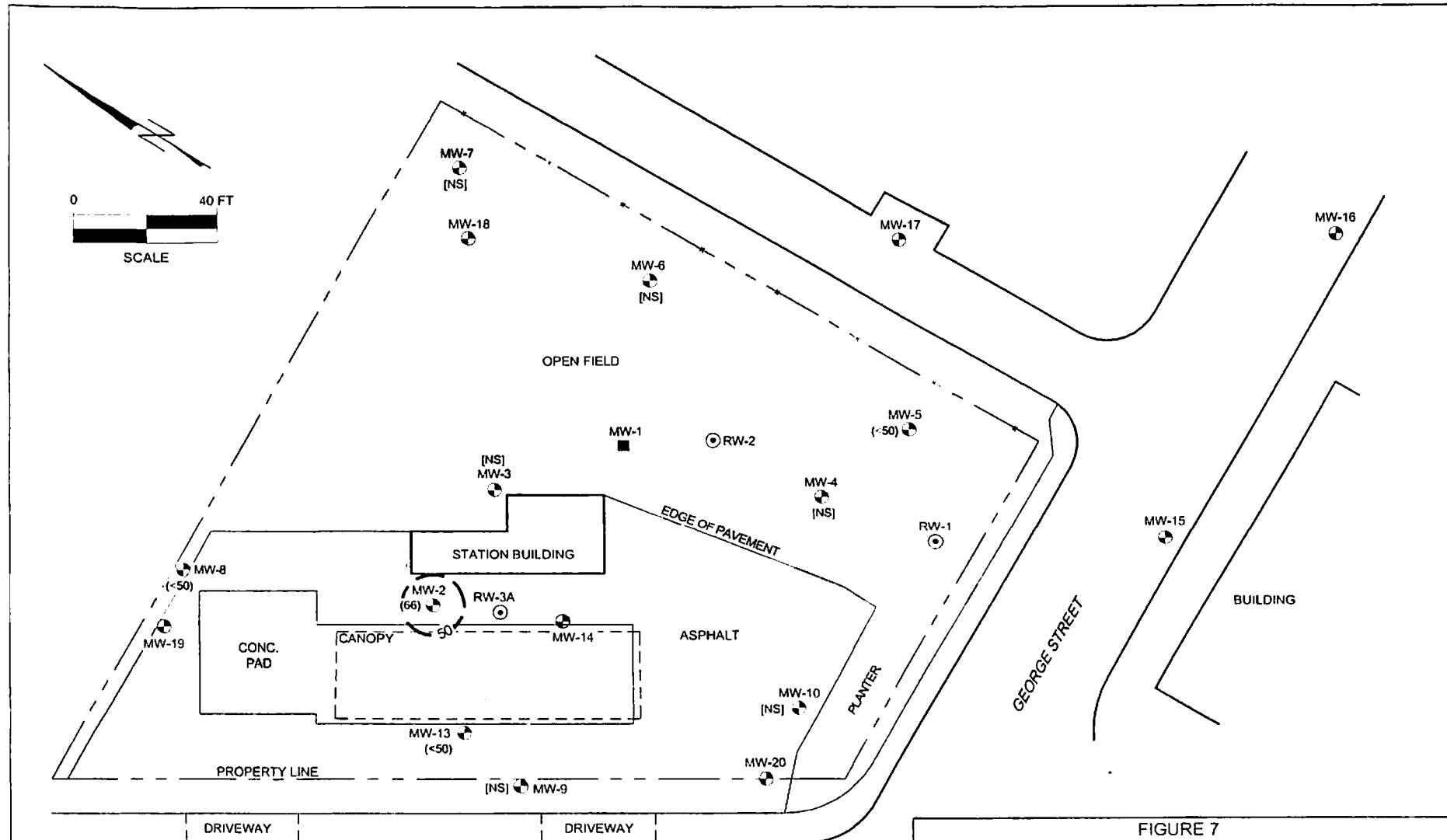
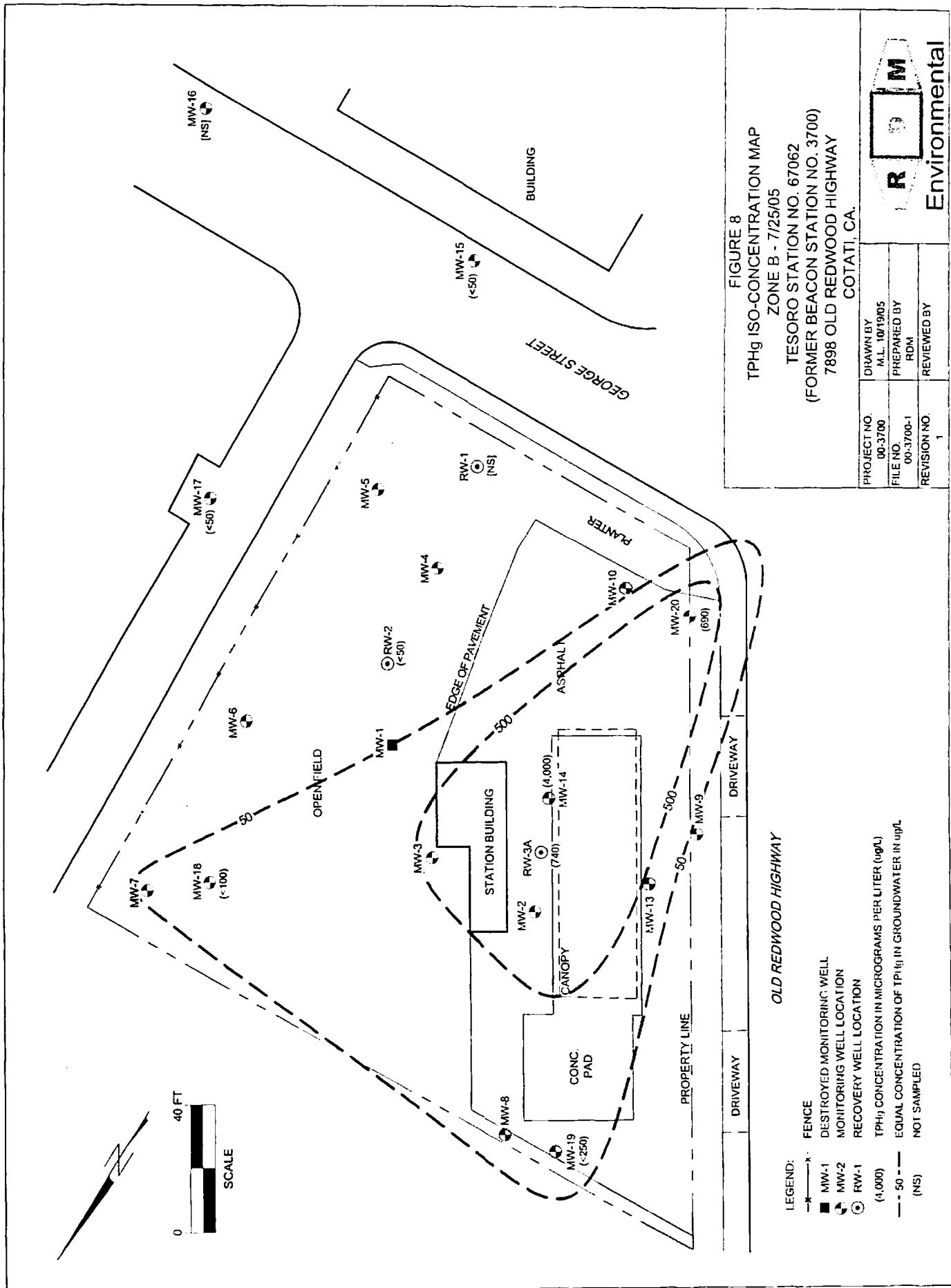
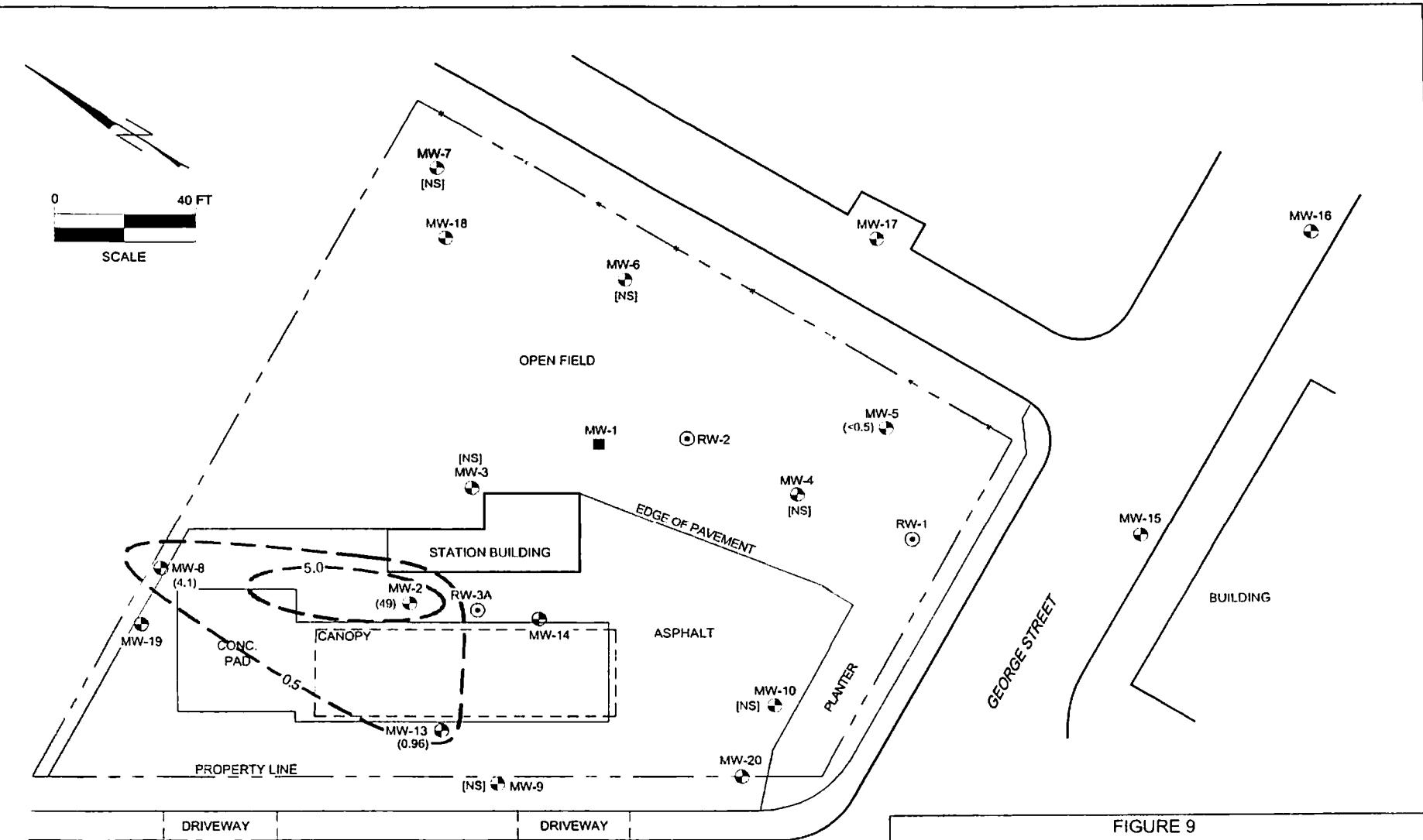


FIGURE 7  
TPH<sub>g</sub> ISO-CONCENTRATION MAP  
ZONE A - 7/25/05  
TESORO STATION NO. 67062  
(FORMER BEACON STATION NO. 3700)  
7898 OLD REDWOOD HIGHWAY  
COTATI, CA.

PROJECT NO. 00-3700	DRAWN BY M.L. 10/19/05
FILE NO. 00-3700-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY







**LEGEND:**

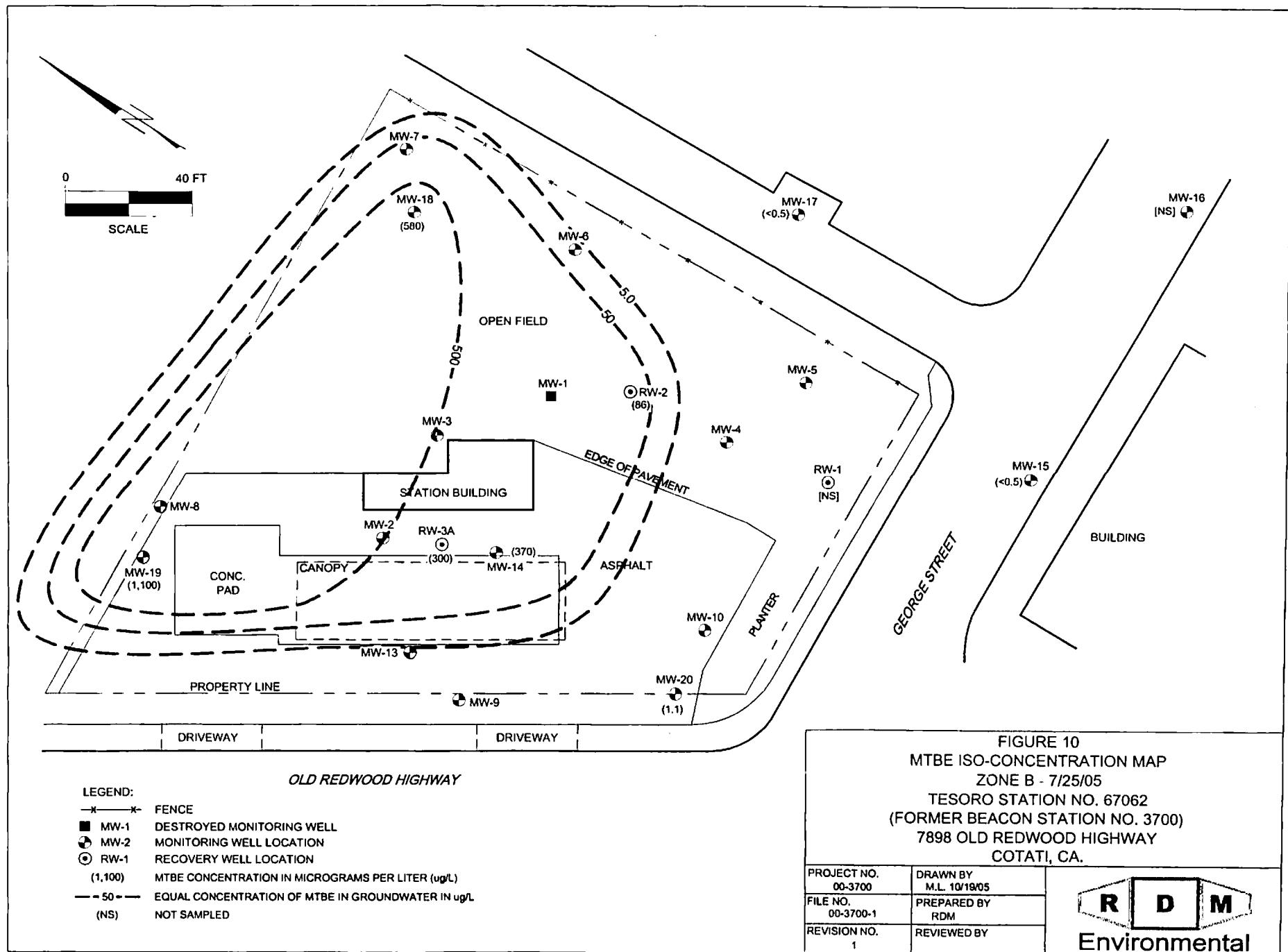
- \*—\*— FENCE
- MW-1 DESTROYED MONITORING WELL
- MW-2 MONITORING WELL LOCATION
- RW-1 RECOVERY WELL LOCATION
- (49) MTBE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
- 5.0— EQUAL CONCENTRATION OF MTBE IN GROUNDWATER IN ug/L
- (NS) NOT SAMPLED

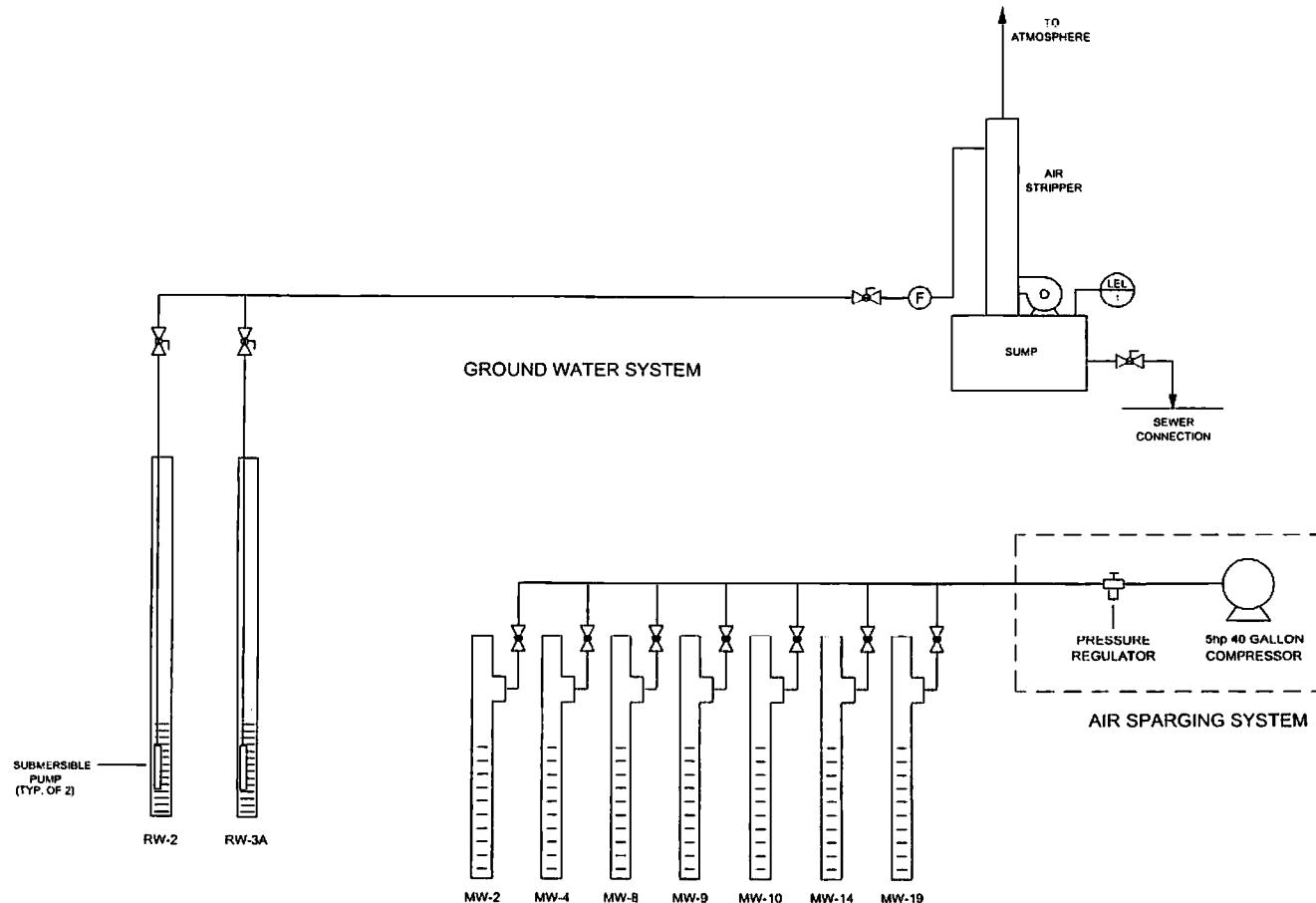
**FIGURE 9**  
MTBE ISO-CONCENTRATION MAP  
ZONE A - 7/25/05  
TESORO STATION NO. 67062  
(FORMER BEACON STATION NO. 3700)  
7898 OLD REDWOOD HIGHWAY  
COTATI, CA.

PROJECT NO. 00-3700	DRAWN BY M.L. 10/19/05	
FILE NO. 00-3700-1	PREPARED BY RDM	
REVISION NO. 1	REVIEWED BY	



Environmental





CONTROL UNIT

Source: Figure Modified From Drawing Provided Delta

LEGEND:

(LS 1) LEVEL SWITCH

(LS 1) H TRANSFER PUMP START  
L TRANSFER PUMP STOP

(BV) BALL VALVE

(LS 2) HH SHUTS OFF SUBMERSIBLE PUMPS IN RW-2, & RW-3A ON HIGH WATER LEVEL  
IN HOLDING TANK

(F) TOTALIZER FLOW METER

(LEL 1) SHUTS ENTIRE GROUND WATER SYSTEM OFF IF PRESET LIMIT IS EXCEEDED

Note: Not To Scale

FIGURE 11

PROCESS FLOW DIAGRAM  
TESORO STATION NO. 67062  
(FORMER BEACON STATION NO. 3700)  
7898 OLD REDWOOD HIGHWAY  
COTATI, CA.

PROJECT NO. 00-3700	DRAWN BY M.L. 5/25/01
FILE NO. 00-3700-4	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY



**ENCLOSURE A**

Site Background Information

## HISTORICAL BACKGROUND INFORMATION

Tesoro Station No. 67062  
Former Beacon Station No. 3700  
7898 Old Redwood Highway  
Cotati, California

### ULTRAMAR INC.

- July 1990 - Ultramar purchased the site from Conoco Inc. At the time of acquisition, sixteen monitoring/recovery wells were present at the site (RW-1, RW-2, RW-3, MW-2 through MW-10, and MW-13 through MW-17). Kayo Oil Company conducted initial environmental investigations in 1985 as a result of an apparent product line release.
- October 1986 - The single-walled tanks at the site were removed and replaced with double-walled fiberglass tanks. Soil samples from the overexcavated tank pit contained TPHg concentrations from 24 ppm to 5,400 ppm (benzene range: <1 ppm to 11 ppm). Further excavation could not be performed due to the proximity of the tank basin to the station building and canopy footings.
- Late 1990 - Ultramar performed a soil vapor survey and vapor extraction influence study to evaluate the feasibility of vapor extraction technology for the site. The investigation showed elevated vapor levels on the property with the highest levels adjacent to the former tank basin. A 75-foot radius of influence was calculated from the feasibility test data.
- Early 1991 - A groundwater remediation system was installed and was operating at the time of Ultramar's purchase of the property. Ultramar made modifications to the system in an effort to maximize groundwater drawdown.
- May 5, 1991 - Soil vapor extraction utilizing an internal combustion engine (ICE) commenced.
- June 1992 - when hydrocarbon concentrations decreased, a Long Term Ambient Venting System (LTAV), consisting of a 100 scfm blower and associated stack, was permitted and installed at the site.
- September 1993 - An air sparging system was installed at the site. The system injected air into wells MW-3, MW-4 and MW-8.
- July 1996 - Based on telephone conversations with the regional water quality control board, the ground water pumping system was shut off.
- December 1996 - The air sparging system expanded to wells RW-3A, MW-2, MW-14 and MW-19.
- May 6, 1998 - The air-sparging system was restarted. The system injects air into wells MW-2, MW-4, MW-8, MW-9 MW-10, MW-14 and MW-19. .
- November 17, 1998 - The groundwater pump-and-treat system was restarted. The system pumps water from recovery wells RW-2 and RW-3A.
- On May 17, 2002, the facility ownership was transferred to Tesoro Petroleum.
- On July 31, and August 1, 2003, RDM representative observed the installation of Geoprobe GP-1 through GP-3 and ozone sparge well OS-1.
- The ozone sparge system was installed during the second week in February 2004 and the long term ozone sparge test was put into operation on February 17, 2004.

## HISTORICAL BACKGROUND INFORMATION

Tesoro Station No. 67062  
Former Beacon Station No. 3700  
7898 Old Redwood Highway  
Cotati, California

- The ozone test conducted on ozone sparge well OS-1 was discontinued on October 13, 2004.
- Ozone sparge wells OS-2A/B, OS-3A/B, OS-4A/B, OS-5A/B, and OS-6A/B were installed during June 1 through 3, 2005.

**ENCLOSURE B**

Ground Water Sampling Information

**RDM ENVIRONMENTAL**  
**GROUND WATER LEVEL DATA**

Project Address:

Tesoro Petroleum No. 67062  
7th and Redwood Hwy, Cotati CA

Date: 7/22/2005

Technicians :

SG/DF

Project Number: 67062

Well Number	Sample Order	Time	Depth to Water	Total Depth	Depth to Product	Product Thickness	Comments
MW-2	10	0909	11.50	20.98			4.55
MW-3		0923	10.27	22.2			5.73
MW-4		0925	<del>7.57</del>	17.5			4.77
MW-5	3	0835	6.59	23.96			8.34
MW-6		0922	9.20	20.68			5.51
MW-7		0920	8.18	21.4			6.35
MW-8	4	0837	9.52	20.2			5.13
MW-9		0916	8.13	18.7			5.07
MW-10		0918	9.03	18.41			4.50
MW-13	5	0840	8.61	24.14			7.45
MW-14	12	0914	12.90	35.54			10.87
MW-15	2	0829	7.84	44.33			17.52
MW-16		0930	<del>7.56</del>	35.36			13.33
MW-17	1	0826	5.21	30.1			11.95
MW-18	9	0858	10.96	42.47			15.12
MW-19	8	0855	9.31	40.07			14.76

RDM ENVIRONMENTAL  
GROUND WATER LEVEL DATA

### Project Address:

Tesoro Petroleum No. 67062

Date: 7/22/2005

LITERATURE

SCDF

Project number: 67062

Client:	Tesoro Petroleum	Sample Data:	7/22/2005					
Site:	Tesoro Petroleum No 67062	Project Number:	67062					
7893 Old Redwood Highway, Cotati, CA		Well Designation: MW-2						
Signature: <i>Solana</i>								
Well Box Condition/Traffic								
Traffic Control	<input checked="" type="radio"/> Yes	No	Time: <u>0909</u> hours					
Drilling in water	<input checked="" type="radio"/> Yes	<input type="radio"/> No	above or below casing					
Top of well level	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Remark:					
Well cap & locked	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Remark: <u>AIR SPARKS POSS</u>					
Height of Riser	<u>4"</u>							
Well Box	8" <u>24"</u>	Type of well box	<u>Not mounted</u>					
Percing/Sampling Equipment								
Percing -								
Submersible Bailer	Submersible Pump							
1" PVC Bailer	Dedicated Bailer							
1" PVC Bellers	Centrifugal Pump							
Sampling -								
Plastic Bailer	<input checked="" type="checkbox"/>	Teflon Bailer	<input type="checkbox"/>					
Disposable Tubing								
Inches								
Water Level	2"	4"	6"					
Geological Marker	<u>X</u>	0.16	0.65					
		1.47	2.61					
Total Measurement	Recharge Time Measurement							
Time:	Calculated Purge							
Depth of Well	<u>20.98</u>	Depth to Water	<u>5.0</u>					
Geol. Marker	Actual Purge							
	<u>4.55</u>							
Purging								
Start Purge	<u>1453</u>							
Sample Time <u>1515</u>								
Time	Temperature	E.C.	pH	ORP	Turbidity			Volume
1454	69.0	703	8.90					1
1456	69.3	724	8.67					2
1512	68.3	661	8.68					3
Water clarity				<u>CLEAR</u>				
				Lock <u>N/A</u>				
Equipment Replacement								
Lock	<u>N/A</u>	Well Cap	<u>04</u>	Colts	<u>N/A</u>	Box	<u>04</u>	
10 minute recharge after 4.0 gallons								

Client:	Tesoro Petroleum	Sample Data:	7/22/2005
Site:	Tesoro Petroleum No 67062	Project Number:	67062
	7898 Old Redwood Highway, Cotati, CA	Well Designation:	MW-5

Signature: *[Signature]***Well Box Condition/Traffic**

Traffic Control	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Time: <u>0835</u> hours
Standing water	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	above or below casing
Top of well level	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Remark:
Well cap & locked	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Remark: CAP, NO LOCK
Height of Riser	<u>1"</u>	
Well Box	8" <input checked="" type="checkbox"/> 12" <input type="checkbox"/> 24" <input type="checkbox"/>	Type of well box Morris, Dubugue

**Purging/Sampling Equipment****Purging -**

2" Disposable Bailer	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>
2" PVC Bailer	<input type="checkbox"/>	Dedicated Bailer	<input type="checkbox"/>
4" PVC Bailers	<input type="checkbox"/>	Centrifugal Pump	<input checked="" type="checkbox"/>

**Sampling -**

Disposable Bailer	<input checked="" type="checkbox"/>	Teflon Bailer	<input type="checkbox"/>	Disposable Tubing	<input type="checkbox"/>
-------------------	-------------------------------------	---------------	--------------------------	-------------------	--------------------------

**Well Purging**

Well Diameter: 2"	<input checked="" type="checkbox"/>	4"	<input type="checkbox"/>	6"	<input type="checkbox"/>	8"	<input type="checkbox"/>
Purge Vol. Multiplier	0.16		0.65		1.47		2.61
Initial Measurement		Recharge Measurement		Calculated Purge		8.34	
Time: <u>0835</u>		Time: <input type="checkbox"/>		Actual Purge		8.5	
Depth of Well	<u>23.96</u>	Depth to Water	<input type="checkbox"/>				
Depth to Water	<u>6.59</u>		<input type="checkbox"/>				

**Sample**

Start Purge	<u>1041</u>	Sample Time	<u>1051</u>
-------------	-------------	-------------	-------------

Time	Temperature	E.C.	pH	ORP	Turbidity			Volume
1044	66.9	939	8.60					1
1046	67.3	973	8.29					2
1048	68.3	953	7.96					3

Sample Appearance	<u>CLEAR</u>	Lock	<u>-1</u>
-------------------	--------------	------	-----------

**Equipment Replacement**

Lock	<u>-1</u>	Well Cap	<u>OK</u>	Bolts	<u>-1</u>	Box	<u>OK</u>
------	-----------	----------	-----------	-------	-----------	-----	-----------

Remarks:

Client:	Tesoro Petroleum	Sample Data:	7/22/2005				
Site:	Tesoro Petroleum No 67062	Project Number:	67062				
	7898 Old Redwood Highway, Cotati, CA	Well Designation:	MW-8				
Signature:	<i>[Signature]</i>						
<b>Well Box Condition/Traffic</b>							
Traffic Control	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Time:	0837 hours				
Standing water	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	above or below casing					
Top of well level	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Remark:					
Well cap & locked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Remark:					
Height of Riser	3"						
Well Box	8" <input checked="" type="checkbox"/> 12" <input type="checkbox"/> 24"	Type of well box	Diversified Well Products				
<b>Purging/Sampling Equipment</b>							
<b>Purging -</b>							
2" Disposable Bailer	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>				
2" PVC Bailer	<input type="checkbox"/>	Dedicated Bailer	<input type="checkbox"/>				
1" PVC Bailers	<input type="checkbox"/>	Centrifugal Pump	<input checked="" type="checkbox"/>				
<b>Sampling -</b>							
Disposable Bailer	<input checked="" type="checkbox"/>	Teflon Bailer	<input type="checkbox"/>	Disposable Tubing	<input type="checkbox"/>		
<b>Well Purging</b>							
Well Diameter: 2"	<input checked="" type="checkbox"/>	4"	<input type="checkbox"/>	6"	<input type="checkbox"/>	8"	<input type="checkbox"/>
Purge Vol. Multiplier	0.16	0.65	1.47	2.61			
Initial Measurement	Recharge Measurement			Calculated Purge	5.13		
Time: 0837	Time:			Actual Purge	4.5		
Depth of Well 20.2	Depth to Water						
Depth to Water 9.52							
<b>Sample</b>							
Start Purge 1102	Sample Time 1137						
Time	Temperature	E.C.	pH	ORP	Turbidity		Volume
1104	69.2	470	8.36				1
1128	68.0	494	8.39				2
1134	74.9	506	7.79				3
Sample Appearance	CLEAR			Lock	N/A		
<b>Equipment Replacement</b>							
Lock	N/A	Well Cap	04	Belts	-2	Box	Toclon to close lid
Remarks: 2.5 min recharge at 3 gallons 5 min recharge at 4 gallons							

Client:	Tesoro Petroleum	Sample Data:	7/22/2005				
Site:	Tesoro Petroleum No 67062	Project Number:	67062				
	7898 Old Redwood Highway, Cotati, CA	Well Designation:	MW-13				
Signature:	<i>[Signature]</i>						
<b>Well Box Condition/Traffic</b>							
Traffic Control	<input checked="" type="radio"/> Yes <input type="radio"/> No	Time:	0840 hours				
Standing water	<input checked="" type="radio"/> Yes <input type="radio"/> No	above or below casing					
Top of well level	<input checked="" type="radio"/> Yes <input type="radio"/> No	Remark:					
Well cap & locked	<input checked="" type="radio"/> Yes <input type="radio"/> No	Remark:					
Height of Riser	4"						
Well Box	8" <input checked="" type="radio"/> 12" <input type="radio"/> 24"	Type of well box	<i>Not marked</i>				
<b>Purging/Sampling Equipment</b>							
<b>Purging -</b>							
2" Disposable Bailer	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>				
2" PVC Bailer	<input type="checkbox"/>	Dedicated Bailer	<input type="checkbox"/>				
4" PVC Bailers	<input type="checkbox"/>	Centrifugal Pump	<input checked="" type="checkbox"/> X				
<b>Sampling -</b>							
Disposable Bailer	<input checked="" type="checkbox"/> X	Teflon Bailer	<input type="checkbox"/>	Disposable Tubing	<input type="checkbox"/>		
<b>Well Purging</b>							
Well Diameter: 2"	<input type="checkbox"/> Y	4"	<input type="checkbox"/>	6"	<input type="checkbox"/>	8"	<input type="checkbox"/>
Purge Vol. Multiplier	0.16		0.65		1.47		2.61
Initial Measurement		Recharge Measurement		Calculated Purge	7.45		
Time:	0840	Time:		Actual Purge	7.5		
Depth of Well	24.14	Depth to Water					
Depth to Water	8.61						
<b>Sample</b>							
Start Purge	1147	Sample Time	1155				
Time	Temperature	E.C.	pH	ORP	Turbidity		Volume
1148	69.4	553	8.46				1
1149	69.3	554	8.25				2
1150	69.1	552	8.21				3
Sample Appearance	<i>CLEAR</i>			Lock	04		
Equipment Replacement							
Lock	<input type="checkbox"/> 04	Well Cap	<input type="checkbox"/> 04	Bolts	<input type="checkbox"/> N/A	Box	<input type="checkbox"/> OK
Remarks:							

Client:	Tesoro Petroleum	Sample Data:	7/22/2005				
Site:	Tesoro Petroleum No 67062	Project Number:	67062				
	7898 Old Redwood Highway, Cotati, CA	Well Designation: MW-14					
Signature:	<i>[Signature]</i>						
<b>Well Box Condition/Traffic</b>							
Traffic Control	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Time:	0914 hours				
Standing water	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	above or below casing					
Top of well level	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Remark:					
Well cap & locked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Remark:					
Height of well	2"						
Well Box	8" <input checked="" type="checkbox"/> 12" <input type="checkbox"/> 24"	Type of well box	<i>Not marked</i>				
<b>Purging Sampling Equipment</b>							
Purging							
2" Disposable Bailer	Submersible Pump						
2" PVC	Dedicated Bailer						
4" PVC Filters	Centrifugal Pump <input checked="" type="checkbox"/>						
<b>Sampling</b>							
Disposable Bailer	<input checked="" type="checkbox"/>	Teflon Bailer	Disposable Tubing				
<b>Well Testing</b>							
Well Test Depth: 2"	<input checked="" type="checkbox"/>	4"	6"	8"	2.61		
Purge Volume Multiplier	0.16	0.65	1.47				
Initial Measurement	Recharge Measurement			Calculated Purge	10.87		
Time: 0914	Time:			Actual Purge	7.0		
Depth of Well: 35.54	Depth to Water						
Depth to Bottom: 12.90							
<b>Sample</b>							
Start Purge	1540			Sample Time	1637		
Tin.	Temperature	E.C.	pH	ORP	Turbidity		Volume
1544	73.6	8881	9.03				1
1551	80.3	1054	8.74				2
1632	71.5	1068	9.32				3
							4
Bottom Condition	CLEAR			Lock	ok		
<b>Error Replacement</b>							
Lock	<i>ok</i>	Well Cap	<i>ok</i>	Bolts	<i>ok</i>	Box	<i>ok</i>
R.H. 35 min recharge after 2nd volume yielded two gallons							

Client:	Tesoro Petroleum	Sample Data:	7/22/2005
Site:	Tesoro Petroleum No 67062	Project Number:	67062
	7898 Old Redwood Highway, Cotati, CA	Well Designation:	MW-15

Signature: *[Signature]***Well Box Condition/Traffic**

Traffic Control	<input checked="" type="checkbox"/> Yes	No	Time: <u>0829</u> hours
Standing water	<input checked="" type="checkbox"/> Yes	No	above or below casing
Top of well level	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Remark: _____
Well cap & locked	<input checked="" type="checkbox"/> Yes	No	Remark: _____
Height of Riser	<u>18"</u>		
Well Box	<u>8</u>	<u>12"</u>	Type of well box <u>Morris Dubey</u>

**Purging/Sampling Equipment****Purging -**

2" Disposable Bailer	Submersible Pump
2" PVC Bailer	Dedicated Bailer
4" PVC Bailers	Centrifugal Pump <input checked="" type="checkbox"/>

**Sampling -**

Disposable Bailer	<input checked="" type="checkbox"/>	Teflon Bailer	Disposable Tubing
-------------------	-------------------------------------	---------------	-------------------

**Well Purging**

Well Diameter: 2"	<input checked="" type="checkbox"/>	4"	6"	8"
Purge Vol. Multiplier	0.16	0.65	1.47	2.61
Initial Measurement Time:	<u>0829</u>	Recharge Measurement Time:		Calculated Purge <u>17.52</u>
Depth of Well	<u>44.33</u>	Depth to Water		Actual Purge <u>17.5</u>
Depth to Water	<u>7.84</u>			

**Sample**

Start Purge	<u>1010</u>	Sample Time	<u>1031</u>				
Time	Temperature	E.C.	pH	ORP	Turbidity		Volume
<u>1014</u>	<u>72.0</u>	<u>580</u>	<u>7.86</u>				<u>1</u>
<u>1020</u>	<u>72.5</u>	<u>596</u>	<u>7.45</u>				<u>2</u>
<u>1028</u>	<u>73.2</u>	<u>596</u>	<u>7.72</u>				<u>3</u>
Sample Appearance	<u>CLEAR</u>			Lock	<u>04</u>		

**Equipment Replacement**

Lock	<u>04</u>	Well Cap	<u>04</u>	Bolts	<u>-1</u>	Box	<u>OK</u>
------	-----------	----------	-----------	-------	-----------	-----	-----------

Remarks:

Client:	Tesoro Petroleum	Sample Data:	7/22/2005					
Site:	Tesoro Petroleum No 67062	Project Number:	67062					
	7898 Old Redwood Highway, Cotati, CA	Well Designation:	MW-17					
Signature:	<i>[Signature]</i>							
<b>Well Box Condition/Traffic</b>								
Traffic Control	<input checked="" type="checkbox"/> Yes	No	Time: <u>0826</u> hours					
Standing water	<input checked="" type="checkbox"/> Yes	No	above or below casing					
Top of well level	<input checked="" type="checkbox"/> Yes	No	Remark:					
Well cap & locked	<input checked="" type="checkbox"/> Yes	No	Remark:					
Height of Riser	<u>6"</u>							
Well Box	8" <input checked="" type="checkbox"/>	12" <input type="checkbox"/>	24" <input type="checkbox"/>					
	Type of well box <u>Christy</u>							
<b>Purging/Sampling Equipment</b>								
<b>Purging -</b>								
2" Disposable Bailer	<u>          </u> Submersible Pump							
2" PVC Bailer	<u>          </u> Dedicated Bailer							
4" PVC Bailers	<u>          </u> Centrifugal Pump <input checked="" type="checkbox"/>							
<b>Sampling -</b>								
Disposable Bailer	<input checked="" type="checkbox"/>	Teflon Bailer	<u>          </u> Disposable Tubing <u>          </u>					
<b>Well Purging</b>								
Well Diameter: 2"	<input checked="" type="checkbox"/>	4"	<u>          </u> 6"	<u>          </u> 8"				
Purge Vol. Multiplier	0.16	0.65	1.47	2.61				
Initial Measurement	Recharge Measurement			Calculated Purge <u>11.95</u>				
Time: <u>0826</u>	Time: <u>          </u>	Actual Purge <u>16.0</u>						
Depth of Well	<u>30.1</u>	Depth to Water <u>          </u>						
Depth to Water	<u>5.21</u>	<u>          </u>						
<b>Sample</b>								
Start Purge	<u>0940</u>			Sample Time <u>0953</u>				
Time	Temperature	E.C.	pH	ORP	Turbidity	<u>          </u>	<u>          </u>	Volume
<u>0943</u>	<u>67.2</u>	<u>731</u>	<u>8.00</u>					<u>1</u>
<u>0945</u>	<u>67.9</u>	<u>842</u>	<u>7.41</u>					<u>2</u>
<u>0948</u>	<u>67.5</u>	<u>880</u>	<u>7.18</u>					<u>3</u>
<u>0950</u>	<u>67.9</u>	<u>893</u>	<u>7.06</u>					<u>4</u>
Sample Appearance	<u>Clear</u>			Lock	<u>04</u>			
<b>Equipment Replacement</b>								
Lock	<u>04</u>	Well Cap	<u>04</u>	Bolts	<u>N/A</u>	Box	<u>04</u>	
Remarks:								

Client:	Tesoro Petroleum	Sample Data:	7/22/2005					
Site:	Tesoro Petroleum No 67062	Project Number:	67062					
	7898 Old Redwood Highway, Cotati, CA	Well Designation:	MW-18					
Signature:	<i>Lester</i>							
Well Box Condition/Traffic								
Traffic Control	Yes <input checked="" type="radio"/> No <input type="radio"/>	Time:	0858 hours					
Standing water	Yes <input checked="" type="radio"/> No <input type="radio"/>	above or below casing						
Top of well level	Yes <input checked="" type="radio"/> No <input type="radio"/>	Remark:						
Well cap & locked	Yes <input checked="" type="radio"/> No <input type="radio"/>	Remark:						
Height of Riser	23"							
Well Box	( 10" 12" 24" )	Type of well box	<u>26" high 6x6 stand pipe</u>					
Purging/Sampling Equipment								
1" PVC Bailer	<input checked="" type="checkbox"/>							
2" PVC Bailer	<input type="checkbox"/>							
3" PVC Bailers	<input type="checkbox"/>							
4" PVC Bailers	<input checked="" type="checkbox"/>							
Disposable Bailer	<input checked="" type="checkbox"/>	Teflon Bailer	<input type="checkbox"/>					
		Disposable Tubing	<input type="checkbox"/>					
Initial Purge								
Chlorination: 2"	<input checked="" type="checkbox"/>	4"	<input type="checkbox"/>					
Avg. Vol. Multiplier	0.16	0.65	1.47					
			2.61					
Initial Measurement	Recharge Measurement		Calculated Purge					
Time:	<u>0858</u>	Time:	<u>15.12</u>					
Depth of Water	<u>42.47</u>	Depth to Water	<u>15.25</u>					
Depth to Water	<u>10.96</u>							
Sample								
Start Purge	<u>1425</u>		Sample Time <u>1440</u>					
Time	Temperature	E.C.	pH	ORP	Turbidity			Volume
1428	67.2	1016	8.49					<u>1</u>
1432	68.7	1005	8.37					<u>2</u>
1436	69.8	999	8.41					<u>3</u>
Water Appearance	<u>CLEAR</u>			Lock	<u>04</u>			
Equipment Replacement								
Lock	<u>04</u>	Well Cap	<u>04</u>	Bolts	<u>N/A</u>	Box	<u>04</u>	
Remarks:								

Client:	Tesoro Petroleum	Sample Data:	7/22/2005					
Site:	Tesoro Petroleum No 67062	Project Number:	67062					
	7898 Old Redwood Highway, Cotati, CA	Well Designation:	MW-19					
Signature:	<i>[Signature]</i>							
<b>Well Box Condition/Traffic</b>								
Traffic Control	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Time:	0855 hours					
Draining water	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	above or below casing						
Top of well level	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Remark:						
Well cap & locked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Remark: AIR SPARKLE PUMP						
Height of Riser	3"							
Well Box	8" 12" 24"	Type of well box	NOT MARKED					
<b>Purging/Sampling Equipment</b>								
Purging -								
2" Discardable Bailer	Submersible Pump							
2" PVC Paster	Dedicated Bailer							
4" PVC Pasters	Centrifugal Pump X							
Sampling -								
Discardable Bailer	X	Teflon Bailer	Disposable Tubing					
<b>Well Purging</b>								
Total Water:	2"	4"	6"	8"				
Flow Rate Multiplier	0.16	0.65	1.47	2.61				
Initial Measurement	Recharge Measurement		Calculated Purge	14.79				
Time:	0855		Actual Purge	14.75				
Depth of Well	40.07		Depth to Water					
Depth to Water	9.31							
Start Purge	1358		Sample Time	1412				
Line	Temperature	E.C.	pH	ORP	Turbidity			Volume
1402	70.6	557	8.86					1
1406	70.8	556	8.71					2
1409	70.9	556	8.70					3
Water Sampled	CLEAR		Lock	N/A				
<b>Equipment Replacement</b>								
Cap	N/A	Well Cap	ON	Dates	N/A	Box	ON	
Well Box								

Client:	Tesoro Petroleum	Sample Data:	7/22/2005				
Site:	Tesoro Petroleum No 67062	Project Number:	67062				
	7898 Old Redwood Highway, Cotati, CA	Well Designation:	MW-20				
Signature:	<i>[Signature]</i>						
<b>Well Box Condition/Traffic</b>							
Traffic Control	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Time:	0842 hours				
Standing water	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	above or below casing					
Top of well level	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Remark:					
Well cap & locked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Remark:					
Height of Riser	0"						
Well Box	8" 12" 24"	Type of well box	<i>Not marked</i>				
<b>Purging/Sampling Equipment</b>							
<b>Purging -</b>							
2" Disposable Bailer	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>				
2" PVC Bailer	<input type="checkbox"/>	Dedicated Bailer	<input type="checkbox"/>				
4" PVC Bailers	<input type="checkbox"/>	Centrifugal Pump	<input checked="" type="checkbox"/>				
<b>Sampling -</b>							
Disposable Bailer	<input checked="" type="checkbox"/>	Teflon Bailer	<input type="checkbox"/>	Disposable Tubing	<input type="checkbox"/>		
<b>Well Purging</b>							
Well Diameter:	2"	4"	6"	8"			
Purge Vol. Multiplier	0.16	0.65	1.47	2.61			
Initial Measurement	Recharge Measurement		Calculated Purge		12.08		
Time:	0842	Time:		Actual Purge	12.5		
Depth of Well	33.41	Depth to Water					
Depth to Water	8.24						
<b>Sample</b>							
Start Purge	1213		Sample Time	1222			
Time	Temperature	E.C.	pH	ORP	Turbidity		Volume
1216	71.5	641	8.01				1
1218	71.5	645	8.00				2
1220	71.4	645	7.97				3
Sample Appearance	<i>CLEAR</i>		Lock	09			
<b>Equipment Replacement</b>							
Lock	04	Well Cap	04	Bolts	N/A	Box	04
Remarks:							

Client:	Tesoro Petroleum	Sample Data:	7/22/2005
Site:	Tesoro Petroleum No 67062	Project Number:	67062
	7898 Old Redwood Highway, Cotati, CA	Well Designation:	RW-2

Signature: *[Signature]***Well Box Condition/Traffic**

Traffic Control	Yes <input checked="" type="radio"/> No <input type="radio"/>	Time: <u>0845</u> hours
Starting water	Yes <input checked="" type="radio"/> No <input type="radio"/>	above or below casing
Top of well level	Yes <input checked="" type="radio"/> No <input type="radio"/>	Remark:
Well cap & locked	Yes <input checked="" type="radio"/> No <input type="radio"/>	Remark: <u>Recovery well</u>
Height of Riser	<u>0"</u>	
Well Box	8" 12" 24"	Type of well box <u>Not marked, 28 1/2" x 40 1/2"</u>

**Purging/Sampling Equipment****Purging -**

2" C-Pusible Bailer	<u>      </u>	Submersible Pump	<u>X - RECOVERY WELL</u>
2" PVC Bailer	<u>      </u>	Dedicated Bailer	<u>      </u>
4" PVC Bailers	<u>      </u>	Centrifugal Pump	<u>      </u>

**Sampling -**

Disposable Bailer	<u>X</u>	Teflon Bailer	<u>      </u>	Disposable Tubing	<u>      </u>
-------------------	----------	---------------	---------------	-------------------	---------------

**Well Purging**

Well Diameter: <u>2"</u>	<u>4"</u>	<u>6"</u>	<u>8"</u>
Purge Vol. Multiplier <u>241</u>	0.16	0.65	1.47
			2.61

Initial Measurement	Recharge Measurement	Calculated Purge	<u>?</u>
Time: <u>0845</u>	Time: <u>      </u>	Actual Purge	<u>105</u>
Depth of Well <u>65.6</u>	Depth to Water <u>      </u>		
Depth to Water <u>8.68</u>			

**Sample**

Start Purge <u>1225</u>	Sample Time <u>1248</u>
-------------------------	-------------------------

Time	Temperature	E.C.	pH	ORP	Turbidity	<u>      </u>	Volume
<u>NUT</u>	<u>MEASURED</u>	<u>RECOVERY WELL</u>					

Sample Appearance <u>CLEAR</u>	Lock <u>N/A</u>
--------------------------------	-----------------

**Equipment Replacement**

Lock <u>N/A</u>	Well Cap <u>04</u>	Tolts <u>      </u>	Box <u>N/A</u>	OH <u>      </u>
-----------------	--------------------	---------------------	----------------	------------------

Remarks: Approx 105 gallons purged using recovery well pump.

Client:	Tesoro Petroleum	Sample Data:	7/22/2005				
Site:	Tesoro Petroleum No 67062	Project Number:	67062				
	7898 Old Redwood Highway, Cotati, CA	Well Designation:	RW-3A				
Signature:	<i>Sedlacek</i>						
<b>Well Box Condition/Traffic</b>							
Will Casing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Time:	0912 hours				
Leaking Casing	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	above or below casing					
Top of well level	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Remark:					
Well cap & locked	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Remark:					
Height of Riser	41"	<u>ACTIVE RECOVERY WELL</u>					
Well Box	12" 24" 36"	Type of well box	ROMEO				
<b>Purging/Sampling Equipment</b>							
Purge	N/A	ACTIVE RECOVERY WELL					
Disposable Bailer	Submersible Pump						
N.C. Pump	Dedicated Bailer						
PVC Baffles	Centrifugal Pump						
<b>Capturing</b>							
Reusable Bailer	<input checked="" type="checkbox"/>	Teflon Bailer	Disposable Tubing				
<b>Well</b>							
Well Name	4"	6"	8"				
Grav. Multiplier	0.16	0.65	1.47	2.61			
Recharge Measurement	Recharge Measurement		Calculated Purge	57.20			
Time:	0912	Actual Purge	N/A				
Depth to Water	38.84						
Depth to Well	25.87						
<b>Sample</b>							
Initial Purge	N/A		Sample Time	1525			
Line	Temperature	E.C.	pH	ORP	Turbidity		Volume
<i>N/A</i>							
Sample Appearance	Cloudy			Look	N/A		
<b>Equipment Replacement</b>							
Line	Well Cap	04	Bolts	04	Box	OK, 3 stripped threads	
Note:							

**ENCLOSURE C**

Ground Water Analytical Results



Report Number : 45000

Date : 8/2/2005

Richard Munsch  
RDM Environmental  
6280 Brookshire Drive  
Rocklin, CA 95677

Subject : 12 Water Samples  
Project Name : Tesoro Petroleum No 67062  
Project Number : 67062

Dear Mr. Munsch,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 45000

Date : 8/2/2005

Project Name : Tesoro Petroleum No 67062

Project Number : 67062

Sample : MW-2

Matrix : Water

Lab Number : 45000-01

Sample Date : 7/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	49	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	360	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	66	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	108		% Recovery	EPA 8260B	7/28/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 45000

Date : 8/2/2005

Project Name : Tesoro Petroleum No 67062

Project Number : 67062

Sample : MW-5

Matrix : Water

Lab Number : 45000-02

Sample Date : 7/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	94.3		% Recovery	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	7/28/2005

Approved By: Joel Kiff



Report Number : 45000

Date : 8/2/2005

Project Name : Tesoro Petroleum No 67062

Project Number : 67062

Sample : MW-8

Matrix : Water

Lab Number : 45000-03

Sample Date : 7/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	4.1	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	94.0		% Recovery	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	7/28/2005

Approved By:

Joel Kiff



Report Number : 45000

Date : 8/2/2005

Project Name : Tesoro Petroleum No 67062

Project Number : 67062

Sample : MW-13

Matrix : Water

Lab Number : 45000-04

Sample Date : 7/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	0.96	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	94.6		% Recovery	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	7/28/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 45000

Date : 8/2/2005

Project Name : Tesoro Petroleum No 67062

Project Number : 67062

Sample : MW-14

Matrix : Water

Lab Number : 45000-05

Sample Date : 7/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	840	1.5	ug/L	EPA 8260B	7/30/2005
Toluene	100	1.5	ug/L	EPA 8260B	7/30/2005
Ethylbenzene	73	1.5	ug/L	EPA 8260B	7/30/2005
Total Xylenes	240	1.5	ug/L	EPA 8260B	7/30/2005
Methyl-t-butyl ether (MTBE)	370	1.5	ug/L	EPA 8260B	7/30/2005
Diisopropyl ether (DIPE)	< 1.5	1.5	ug/L	EPA 8260B	7/30/2005
Ethyl-t-butyl ether (ETBE)	< 1.5	1.5	ug/L	EPA 8260B	7/30/2005
Tert-amyl methyl ether (TAME)	< 1.5	1.5	ug/L	EPA 8260B	7/30/2005
Tert-Butanol	450	7.0	ug/L	EPA 8260B	7/30/2005
TPH as Gasoline	4000	150	ug/L	EPA 8260B	7/30/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	7/30/2005
4-Bromofluorobenzene (Surr)	111		% Recovery	EPA 8260B	7/30/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 45000

Date : 8/2/2005

Project Name : Tesoro Petroleum No 67062

Project Number : 67062

Sample : MW-15

Matrix : Water

Lab Number : 45000-06

Sample Date : 7/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	94.2		% Recovery	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	7/28/2005

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 45000

Date : 8/2/2005

Project Name : Tesoro Petroleum No 67062

Project Number : 67062

Sample : MW-17

Matrix : Water

Lab Number : 45000-07

Sample Date : 7/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	94.1		% Recovery	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	7/28/2005

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 45000

Date : 8/2/2005

Project Name : Tesoro Petroleum No 67062

Project Number : 67062

Sample : MW-18

Matrix : Water

Lab Number : 45000-08

Sample Date : 7/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 1.0	1.0	ug/L	EPA 8260B	7/29/2005
Toluene	< 1.0	1.0	ug/L	EPA 8260B	7/29/2005
Ethylbenzene	< 1.0	1.0	ug/L	EPA 8260B	7/29/2005
Total Xylenes	< 1.0	1.0	ug/L	EPA 8260B	7/29/2005
Methyl-t-butyl ether (MTBE)	580	1.0	ug/L	EPA 8260B	7/29/2005
Diisopropyl ether (DIPE)	< 1.0	1.0	ug/L	EPA 8260B	7/29/2005
Ethyl-t-butyl ether (ETBE)	< 1.0	1.0	ug/L	EPA 8260B	7/29/2005
Tert-amyl methyl ether (TAME)	< 1.0	1.0	ug/L	EPA 8260B	7/29/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/29/2005
TPH as Gasoline	< 100	100	ug/L	EPA 8260B	7/29/2005
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	7/29/2005
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	7/29/2005

Approved By:

Joel Kiff



Report Number : 45000

Date : 8/2/2005

Project Name : Tesoro Petroleum No 67062

Project Number : 67062

Sample : MW-19

Matrix : Water

Lab Number : 45000-09

Sample Date : 7/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 2.5	2.5	ug/L	EPA 8260B	7/28/2005
Toluene	< 2.5	2.5	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	< 2.5	2.5	ug/L	EPA 8260B	7/28/2005
Total Xylenes	< 2.5	2.5	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	1100	2.5	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	< 2.5	2.5	ug/L	EPA 8260B	7/28/2005
Ethyl-t-butyl ether (ETBE)	< 2.5	2.5	ug/L	EPA 8260B	7/28/2005
Tert-amyl methyl ether (TAME)	< 2.5	2.5	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	< 15	15	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	< 250	250	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	97.3		% Recovery	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	98.6		% Recovery	EPA 8260B	7/28/2005

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 45000

Date : 8/2/2005

Project Name : Tesoro Petroleum No 67062

Project Number : 67062

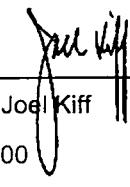
Sample : MW-20

Matrix : Water

Lab Number : 45000-10

Sample Date : 7/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	6.0	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	5.5	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	1.1	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	5.6	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	690	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	94.2		% Recovery	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	7/28/2005

Approved By:   
Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 45000

Date : 8/2/2005

Project Name : Tesoro Petroleum No 67062

Project Number : 67062

Sample : RW-2

Matrix : Water

Lab Number : 45000-11

Sample Date : 7/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	86	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	20	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	92.7		% Recovery	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	7/28/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 45000

Date : 8/2/2005

Project Name : Tesoro Petroleum No 67062

Project Number : 67062

Sample : RW-3A

Matrix : Water

Lab Number : 45000-12

Sample Date : 7/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	33	0.90	ug/L	EPA 8260B	7/30/2005
Toluene	1.7	0.90	ug/L	EPA 8260B	7/30/2005
Ethylbenzene	3.4	0.90	ug/L	EPA 8260B	7/30/2005
Total Xylenes	9.8	0.90	ug/L	EPA 8260B	7/30/2005
Methyl-t-butyl ether (MTBE)	300	0.90	ug/L	EPA 8260B	7/30/2005
Diisopropyl ether (DIPE)	< 0.90	0.90	ug/L	EPA 8260B	7/30/2005
Ethyl-t-butyl ether (ETBE)	< 0.90	0.90	ug/L	EPA 8260B	7/30/2005
Tert-amyl methyl ether (TAME)	< 0.90	0.90	ug/L	EPA 8260B	7/30/2005
Tert-Butanol	2600	5.0	ug/L	EPA 8260B	7/30/2005
TPH as Gasoline	740	90	ug/L	EPA 8260B	7/30/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	7/30/2005
4-Bromofluorobenzene (Surr)	111		% Recovery	EPA 8260B	7/30/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45000

Date : 8/2/2005

**QC Report : Method Blank Data****Project Name : Tesoro Petroleum No 67062****Project Number : 67062**

<b>Parameter</b>	<b>Measured Value</b>	<b>Method Reporting Limit</b>	<b>Units</b>	<b>Analysis Method</b>	<b>Date Analyzed</b>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/29/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/29/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/29/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/29/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/29/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/29/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/29/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/29/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/29/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/29/2005
Toluene - d8 (Surr)	98.4	%		EPA 8260B	7/29/2005
4-Bromofluorobenzene (Surr)	94.3	%		EPA 8260B	7/29/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	98.7	%		EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	98.3	%		EPA 8260B	7/28/2005

<b>Parameter</b>	<b>Measured Value</b>	<b>Method Reporting Limit</b>	<b>Units</b>	<b>Analysis Method</b>	<b>Date Analyzed</b>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	99.3	%		EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	107	%		EPA 8260B	7/28/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/29/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/29/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/29/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/29/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/29/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/29/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/29/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/29/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/29/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/29/2005
Toluene - d8 (Surr)	95.5	%		EPA 8260B	7/29/2005
4-Bromofluorobenzene (Surr)	106	%		EPA 8260B	7/29/2005

Report Number : 45000

Date : 8/2/2005

QC Report : Method Blank Data

Project Name : Tesoro Petroleum No 67062

Project Number : 67062

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Sur)	94.8	%		EPA 8260B	7/28/2005
4-Bromofluorobenzene (Sur)	103	%		EPA 8260B	7/28/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
-----------	----------------	------------------------	-------	-----------------	---------------



Report Number : 45000

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 8/2/2005

Project Name : Tesoro Petroleum No

Project Number : 67062

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	45015-02	<0.50	39.9	40.0	39.4	40.0	ug/L	EPA 8260B	7/29/05	98.8	100	1.33	70-130	25
Toluene	45015-02	<0.50	39.9	40.0	39.1	39.8	ug/L	EPA 8260B	7/29/05	97.9	99.4	1.54	70-130	25
Tert-Butanol	45015-02	<5.0	200	200	199	197	ug/L	EPA 8260B	7/29/05	99.6	98.7	0.851	70-130	25
Methyl-t-Butyl Ether	45015-02	1.2	39.9	40.0	40.3	39.7	ug/L	EPA 8260B	7/29/05	98.0	96.3	1.75	70-130	25
Benzene	44953-03	<0.50	40.0	40.0	43.6	43.1	ug/L	EPA 8260B	7/28/05	109	108	1.06	70-130	25
Toluene	44953-03	<0.50	40.0	40.0	41.2	41.0	ug/L	EPA 8260B	7/28/05	103	102	0.407	70-130	25
Tert-Butanol	44953-03	<5.0	200	200	199	200	ug/L	EPA 8260B	7/28/05	99.6	100	0.387	70-130	25
Methyl-t-Butyl Ether	44953-03	0.59	40.0	40.0	35.5	36.3	ug/L	EPA 8260B	7/28/05	87.2	89.4	2.47	70-130	25
Benzene	45000-01	<0.50	40.0	40.0	43.3	40.3	ug/L	EPA 8260B	7/28/05	108	101	7.18	70-130	25
Toluene	45000-01	<0.50	40.0	40.0	37.2	41.4	ug/L	EPA 8260B	7/28/05	92.9	104	10.8	70-130	25
Tert-Butanol	45000-01	360	200	200	582	583	ug/L	EPA 8260B	7/28/05	112	112	0.579	70-130	25
Methyl-t-Butyl Ether	45000-01	49	40.0	40.0	94.2	88.3	ug/L	EPA 8260B	7/28/05	112	97.8	14.0	70-130	25
Benzene	44961-28	<0.50	40.0	40.0	38.9	36.5	ug/L	EPA 8260B	7/29/05	97.3	91.3	6.29	70-130	25
Toluene	44961-28	<0.50	40.0	40.0	37.0	35.1	ug/L	EPA 8260B	7/29/05	92.6	87.7	5.39	70-130	25
Tert-Butanol	44961-28	<5.0	200	200	193	178	ug/L	EPA 8260B	7/29/05	96.7	89.0	8.33	70-130	25
Methyl-t-Butyl Ether	44961-28	0.72	40.0	40.0	34.7	32.5	ug/L	EPA 8260B	7/29/05	85.0	79.4	6.76	70-130	25
Benzene	45001-01	48	40.0	40.0	88.4	85.9	ug/L	EPA 8260B	7/28/05	102	95.3	6.40	70-130	25
Toluene	45001-01	1.2	40.0	40.0	39.2	38.6	ug/L	EPA 8260B	7/28/05	95.0	93.4	1.72	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Report Number : 450000  
Date : 8/2/2005

Project Name : **Tesoro Petroleum No**  
Project Number : **67062**

Parameter	Spiked Sample	Sample Value	Spike Level	Spiked Sample Value	Duplicate Spiked Sample Value	Analysis Method	Date Analyzed	Duplicate Spiked Sample	Spiked Sample	Relative Percent Recov.	Duplicate Spiked Sample	Spiked Sample	Relative Percent Recov.	Duplicate Spiked Sample	Spiked Sample	Relative Percent Recov.	Duplicate Spiked Sample	Spiked Sample	Relative Percent Recov.	Relative Percent Recov.	Diff. Limit
Tert-Butanol	45001-01	<5.0	200	200	203	EPA 8260B	7/28/05	100	102	1.41	70-130	25									
Methyl-t-Butyl Ether	45001-01	<0.50	40.0	40.0	37.8	EPA 8260B	7/28/05	94.6	92.4	2.31	70-130	25									

*Joe Kiff*

Approved By:

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45000

QC Report : Laboratory Control Sample (LCS)

Date : 8/2/2005

Project Name : Tesoro Petroleum No

Project Number : 67062

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	7/29/05	98.4	70-130
Toluene	40.0	ug/L	EPA 8260B	7/29/05	98.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/29/05	94.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/29/05	99.0	70-130
Benzene	40.0	ug/L	EPA 8260B	7/28/05	109	70-130
Toluene	40.0	ug/L	EPA 8260B	7/28/05	106	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/28/05	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/28/05	90.1	70-130
Benzene	40.0	ug/L	EPA 8260B	7/28/05	106	70-130
Toluene	40.0	ug/L	EPA 8260B	7/28/05	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/28/05	112	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/28/05	102	70-130
Benzene	40.0	ug/L	EPA 8260B	7/29/05	96.8	70-130
Toluene	40.0	ug/L	EPA 8260B	7/29/05	96.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/29/05	96.7	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/29/05	84.1	70-130
Benzene	40.0	ug/L	EPA 8260B	7/28/05	106	70-130

KIFF ANALYTICAL, LLC

Approved By:

Joe Kiff

Report Number : 45000

Date : 8/2/2005

QC Report : Laboratory Control Sample (LCS)

Project Name : Tesoro Petroleum No

Project Number : 67062

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Toluene	40.0	ug/L	EPA 8260B	7/28/05	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/28/05	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/28/05	102	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joe Kiff





Attention : Richard Munsch  
RDM Environmental  
6280 Brookshire Drive  
Rocklin, CA 95677

Project Name : Tesoro Petroleum No 67062  
Project Number : 67062

Report Number : 45000

Date : 8/2/2005

## Analysis Summary

Analyte	Sample Name		MW-2		MW-5		MW-8		MW-13		MW-14		MW-15		MW-17		MW-18	
	Sample Date	Method	Units	MRL	Results	MRL												
Benzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	1.5	840	0.50	ND	0.50	ND	1.0	ND
Toluene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	1.5	100	0.50	ND	0.50	ND	1.0	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	1.5	73	0.50	ND	0.50	ND	1.0	ND
Total Xylenes	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	1.5	240	0.50	ND	0.50	ND	1.0	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	49	0.50	ND	0.50	4.1	0.50	0.96	1.5	370	0.50	ND	0.50	ND	1.0	580
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	1.5	ND	0.50	ND	0.50	ND	1.0	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	1.5	ND	0.50	ND	0.50	ND	1.0	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	1.5	ND	0.50	ND	0.50	ND	1.0	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	360	5.0	ND	5.0	ND	5.0	ND	7.0	450	5.0	ND	5.0	ND	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	50	66	50	ND	50	ND	50	ND	150	4000	50	ND	50	ND	100	ND
Toluene - d8 (Surrogate)	EPA 8260B	%		98.4		94.3		94.0		94.6		101		94.2		94.1		97.6
4-Bromofluorobenzene (Surrogate)	EPA 8260B	%		108		104		105		105		111		105		104		110

MRL = Method Reporting Limit

ND = Not Detected

Approved By,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



## Analysis Summary

Attention : Richard Munsch  
RDM Environmental  
6280 Brookshire Drive  
Rocklin, CA 95677

Project Name : Tesoro Petroleum No 67062

Project Number : 67062

Report Number : 45000

Date : 8/2/2005

Analyte	Method	Units	MW-19		MW-20		RW-2		RW-3A	
			Sample Date	7/22/2005						
Benzene	EPA 8260B	ug/L	2.5	ND	0.50	ND	0.50	ND	0.90	33
Toluene	EPA 8260B	ug/L	2.5	ND	0.50	ND	0.50	ND	0.90	1.7
Ethylbenzene	EPA 8260B	ug/L	2.5	ND	0.50	6.0	0.50	ND	0.90	3.4
Total Xylenes	EPA 8260B	ug/L	2.5	ND	0.50	5.5	0.50	ND	0.90	9.8
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	2.5	1100	0.50	1.1	0.50	86	0.90	300
Diisopropyl ether (DPE)	EPA 8260B	ug/L	2.5	ND	0.50	ND	0.50	ND	0.90	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	2.5	ND	0.50	ND	0.50	ND	0.90	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	2.5	ND	0.50	ND	0.50	ND	0.90	ND
Tert-Butanol	EPA 8260B	ug/L	15	ND	5.0	5.6	5.0	20	5.0	2600
TPH as Gasoline	EPA 8260B	ug/L	250	ND	50	690	50	ND	90	740
Toluene - d8 (Surr)	EPA 8260B	%		97.3		94.2		92.7		101
4-Bromofluorobenzene (Surr)	EPA 8260B	%		98.6		104		104		111

MRL = Method Reporting Limit  
ND = Not Detected

Approved By,

A handwritten signature in black ink, appearing to read "Joel Kiff". The signature is written over a vertical line and includes a small horizontal flourish at the end.

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800  
ELAP # 2236





**ENCLOSURE D**

Historical Ground Water Monitoring Data

**TABLE 1**  
**GROUND WATER ELEVATION DATA**  
**BEACON STATION #700**  
**7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA**  
**(Measurements in feet)**

Monitoring/ Vapor Extraction Well	Date	Reference Elevation (top of casing) <sup>1</sup>	Depth to Ground Water <sup>1</sup>	Ground Water Elevation <sup>2</sup>	Well Depth <sup>3</sup>	Comments
MW-1	05/25/93 <sup>4</sup>					
MW-2	02/15/96	106.58	10.04	96.54	---	No free product/no sheen
	05/29/96		11.13	95.45	---	No free product/no sheen
	08/15/96		14.05	92.53	---	No free product/no sheen
	11/20/96		16.73	89.85	---	No free product/no sheen
	02/27/97		9.18	97.40	---	No free product/no sheen
	05/30/97		12.79	93.79	22.10	No free product/no sheen
	07/30/97		15.25	91.33	22.10	No free product/no sheen
	12/04/97		13.99	92.59	22.11	No free product/no sheen
	02/17/98		5.51	101.07	22.12	No free product/no sheen
	05/18/98		10.29	96.29	22.16	No free product/no sheen
MW-3	02/15/96	105.99	10.40	95.59	---	No free product/no sheen
	05/29/96		11.69	94.30	---	No free product/no sheen
	08/15/96		11.82	94.17	---	No free product/no sheen
	11/20/96		17.36	88.63	---	No free product/no sheen
	02/27/97		9.15	69.84	---	No free product/no sheen
	05/30/97		13.06	92.93	22.20	No free product/no sheen
	07/30/97		15.40	90.59	22.22	No free product/no sheen
	12/04/97		14.20	91.79	22.22	No free product/no sheen
	02/17/98		4.98	101.01	22.25	No free product/no sheen
	05/18/98		8.89	97.10	22.25	No free product/no sheen
MW-4	02/15/96	104.52	12.31	92.21	---	No free product/no sheen
	05/29/96		12.83	91.69	---	No free product/no sheen
	08/15/96		16.22	88.30	---	No free product/no sheen
	11/20/96		---	----	---	Well Dry
	02/27/97		8.73	95.79	---	No free product/no sheen
	05/30/97		13.49	91.03	17.45	
	07/30/97		15.58	88.94	17.45	
	12/04/97		14.23	90.29	17.43	
	02/17/98		4.52	100.00	17.41	
	05/18/98		8.12	96.40	17.40	

NOTES: 1

= Measurement and reference elevation taken from notch/mark on top north side of well casing.

2

= Elevation referenced to mean sea level.

Well Depth<sup>3</sup>

= Measurement from top of casing to bottom of well.

4

= Well destroyed.

5

= Recovery Well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995, and replaced by recovery well RW-3A (total depth 45 feet)

---

= Not measured/not observed.

\*\*

= Well has been dry or not listed for sampling since 3/92.

**TABLE 1**  
**GROUND WATER ELEVATION DATA**  
**BEACON STATION #700**  
**7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA**  
**(Measurements in feet)**

Monitoring/ Vapor Extraction Well	Date	Reference Elevation (top of casing) <sup>1</sup>	Depth to Ground Water <sup>1</sup>	Ground Water Elevation <sup>2</sup>	Well Depth <sup>3</sup>	Comments
MW-5	02/15/96	104.91	14.14	90.77	---	No free product/no sheen
	05/29/96		13.07	91.84	---	No free product/no sheen
	08/15/96		15.70	89.21	---	No free product/no sheen
	11/20/96		19.27	85.64	---	No free product/no sheen
	02/27/97		9.66	95.25	---	No free product/no sheen
	05/30/97		13.77	91.14	23.97	No free product/no sheen
	07/30/97		16.17	88.74	23.96	
	12/04/97		17.10	87.81	23.98	
	02/17/98		4.38	100.53	20.71	
	05/18/98		7.95	96.96	23.97	
MW-6	02/15/96	107.81	12.16	95.65	---	No free product/no sheen
	05/29/96		14.57	93.24	---	No free product/no sheen
	08/15/96		16.74	91.07	---	No free product/no sheen
	11/20/96		---	---	---	Well Dry
	02/27/97		11.82	95.99	---	No free product/no sheen
	05/30/97		15.65	92.16	20.71	
	07/30/97		17.02	90.79	20.71	
	12/04/97		15.01	92.80	20.70	
	02/17/98		7.01	100.80	20.71	
	05/18/98		9.50	98.31	20.71	
MW-7	02/15/96	106.31	9.52	96.79	---	No free product/no sheen
	05/29/96		10.72	95.59	---	No free product/no sheen
	08/15/96		13.89	92.49	---	No free product/no sheen
	11/20/96		17.64	88.67	---	Well Dry
	02/27/97		9.54	96.77	---	No free product/no sheen
	05/30/97		12.85	93.46	21.45	
	07/30/97		15.15	91.16	21.45	
	12/04/97		13.83	92.48	21.45	
	02/17/98		6.44	99.87	21.45	
	05/18/98		9.29	97.02	21.46	

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.

2 = Elevation referenced to mean sea level.

Well Depth<sup>3</sup> = Measurement from top of casing to bottom of well.

4 = Well destroyed.

5 = Recovery Well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995, and replaced by recovery well RW-3A (total depth 45 feet)

--- = Not measured/not observed.

\*\* = Well has been dry or not listed for sampling since 3/92.

**TABLE 1**  
**GROUND WATER ELEVATION DATA**  
**BEACON STATION #700**  
**7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA**  
**(Measurements in feet)**

Monitoring/ Vapor Extraction Well	Date	Reference Elevation (top of casing) <sup>1</sup>	Depth to Ground Water <sup>1</sup>	Ground Water Elevation <sup>2</sup>	Well Depth <sup>3</sup>	Comments
MW-8	02/15/96	106.50	8.61	97.89	---	No free product/no sheen
	05/29/96		10.08	96.42	---	No free product/no sheen
	08/15/96		13.34	93.16	---	No free product/no sheen
	11/20/96		16.09	90.41	---	No free product/no sheen
	02/27/97		8.92	97.58	---	No free product/no sheen
	05/30/97		11.99	94.51	18.45	No free product/no sheen
	07/30/97		14.36	92.14	18.45	No free product/no sheen
	12/04/97		8.82	97.68	18.46	No free product/no sheen
	02/17/98		3.59	102.91	18.46	No free product/no sheen
	05/18/98		8.55	97.95	18.47	No free product/no sheen
MW-9	02/15/96	106.25	8.87	97.38	---	No free product/no sheen
	05/29/96		9.50	96.75	---	No free product/no sheen
	08/15/96		12.74	93.51	---	No free product/no sheen
	11/20/96		15.31	90.94	---	No free product/no sheen
	02/27/97		8.25	98.00	---	No free product/no sheen
	05/30/97		11.51	94.74	18.59	No free product/no sheen
	07/30/97		14.13	92.12	18.56	No free product/no sheen
	12/04/97		12.64	93.61	18.57	No free product/no sheen
	02/17/98		3.48	102.77	18.57	No free product/no sheen
	05/18/98		7.65	98.60	18.56	No free product/no sheen
MW-10	02/15/96	106.47	12.05	94.42	---	No free product/no sheen
	05/29/96		11.64	94.83	---	No free product/no sheen
	08/15/96		15.11	91.36	---	No free product/no sheen
	11/20/96		17.13	89.34	---	No free product/no sheen
	02/27/97		9.66	96.81	---	No free product/no sheen
	05/30/97		13.67	92.80	18.42	No free product/no sheen
	07/30/97		16.04	90.43	18.43	No free product/no sheen
	12/04/97		15.90	90.57	18.44	No free product/no sheen
	02/17/98		6.29	100.18	18.42	No free product/no sheen
	05/18/98		9.16	97.31	18.44	No free product/no sheen
MW-12	05/25/93 <sup>4</sup>					

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.

2 = Elevation referenced to mean sea level.

Well Depth<sup>3</sup> = Measurement from top of casing to bottom of well.

4 = Well destroyed.

5 = Recovery Well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995, and replaced by recovery well RW-3A (total depth 45 feet)

--- = Not measured/not observed.

\*\* = Well has been dry or not listed for sampling since 3/92.

**TABLE 1**  
**GROUND WATER ELEVATION DATA**  
**BEACON STATION #700**  
**7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA**  
(Measurements in feet)

Monitoring/ Vapor Extraction Well	Date	Reference Elevation (top of casing) <sup>1</sup>	Depth to Ground Water <sup>1</sup>	Ground Water Elevation <sup>2</sup>	Well Depth <sup>3</sup>	Comments
MW-13	02/15/96	106.01	8.55	97.46	---	No free product/no sheen
	05/29/96		9.42	96.59	---	No free product/no sheen
	08/15/96		12.63	93.38	---	No free product/no sheen
	11/20/96		15.21	90.80	---	No free product/no sheen
	02/27/97		8.16	97.85	---	No free product/no sheen
	05/30/97		11.45	94.56	24.01	No free product/no sheen
	07/30/97		14.00	92.01	24.01	
	12/04/97		12.51	93.50	24.02	
	02/17/98		5.19	100.82	24.02	
	05/18/98		8.12	97.89	24.02	
MW-14	02/15/96	106.64	12.83	93.81	---	No free product/no sheen
	05/29/96		14.15	92.49	---	No free product/no sheen
	08/15/96		16.13	90.51	---	No free product/no sheen
	11/20/96		19.21	87.43	---	No free product/no sheen
	02/27/97		11.40	95.24	---	No free product/no sheen
	05/30/97		15.40	91.60	39.56	No free product/no sheen
	07/30/97		17.26	89.38	39.57	
	12/04/97		16.38	90.26	39.58	
	02/17/98		6.83	99.81	39.58	
	05/18/98		10.24	96.40	39.58	
MW-15	02/15/96	105.12	15.82	89.30	---	No free product/no sheen
	05/29/96		13.60	91.52	---	No free product/no sheen
	08/15/96		16.47	88.65	---	No free product/no sheen
	11/20/96		19.73	85.39	---	No free product/no sheen
	02/27/97		12.22	92.90	---	No free product/no sheen
	05/30/97		15.14	89.98	44.32	No free product/no sheen
	07/30/97		17.56	87.56	44.32	
	12/04/97		18.56	86.56	44.33	
	02/17/98		8.91	96.21	44.31	
	05/18/98		10.12	95.00	44.30	

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.

2 = Elevation referenced to mean sea level.

Well Depth<sup>3</sup> = Measurement from top of casing to bottom of well.

4 = Well destroyed.

5 = Recovery Well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995, and replaced by recovery well RW-3A (total depth 45 feet)

--- = Not measured/not observed.

\*\* = Well has been dry or not listed for sampling since 3/92.

**TABLE 1**  
**GROUND WATER ELEVATION DATA**  
**BEACON STATION #700**  
**7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA**  
**(Measurements in feet)**

Monitoring/ Vapor Extraction Well	Date	Reference Elevation (top of casing) <sup>1</sup>	Depth to Ground Water <sup>1</sup>	Ground Water Elevation <sup>2</sup>	Well Depth <sup>3</sup>	Comments
MW-16	02/15/96	104.92	13.50	91.42	---	No free product/no sheen
	05/29/96		11.56	93.36	---	No free product/no sheen
	08/15/96		14.84	90.08	---	No free product/no sheen
	11/20/96		18.15	86.77	---	No free product/no sheen
	02/27/97		10.97	93.95	---	No free product/no sheen
	05/30/97		13.84	91.08	35.20	
	07/30/97		15.82	89.10	35.21	
	12/04/97		14.41	90.51	35.21	
	02/17/98		8.23	96.69	35.24	
	05/18/98		8.48	96.44	35.23	
MW-17	02/15/96	103.01	13.91	89.10	---	No free product/no sheen
	05/29/96		14.17	88.84	---	No free product/no sheen
	08/15/96		16.75	86.26	---	No free product/no sheen
	11/20/96		18.93	84.08	---	No free product/no sheen
	02/27/97		10.85	92.16	---	No free product/no sheen
	05/30/97		14.33	88.68	39.10	
	07/30/97		17.03	85.98	39.11	
	12/04/97		15.02	87.99	39.10	
	02/17/98		7.12	95.89	39.07	
	05/18/98		9.60	93.41	39.08	
MW-18	02/15/96	108.35	12.56	95.79	---	No free product/no sheen
	05/29/96		13.90	94.45	---	No free product/no sheen
	08/15/96		16.81	91.54	---	No free product/no sheen
	11/20/96		20.54	87.81	---	No free product/no sheen
	02/27/97		12.33	96.02	---	No free product/no sheen
	05/30/97		15.71	92.64	42.36	
	07/30/97		18.06	90.29	42.37	
	12/04/97		16.32	92.03	42.38	
	02/17/98		9.20	99.15	42.38	
	05/18/98		12.03	96.32	42.36	

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.

2 = Elevation referenced to mean sea level.

Well Depth<sup>3</sup> = Measurement from top of casing to bottom of well.

4 = Well destroyed.

5 = Recovery Well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995, and replaced by recovery well RW-3A (total depth 45 feet)

--- = Not measured/not observed.

\*\* = Well has been dry or not listed for sampling since 3/92.

**TABLE 1**  
**GROUND WATER ELEVATION DATA**  
**BEACON STATION #700**  
**7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA**  
**(Measurements in feet)**

Monitoring/ Vapor Extraction Well	Date	Reference Elevation (top of casing) <sup>1</sup>	Depth to Ground Water <sup>1</sup>	Ground Water Elevation <sup>2</sup>	Well Depth <sup>3</sup>	Comments
MW-19	02/15/96	106.43	8.56	97.87	---	No free product/no sheen
	05/29/96		10.21	96.22	---	No free product/no sheen
	08/15/96		13.25	93.18	---	No free product/no sheen
	11/20/96		16.36	90.07	---	No free product/no sheen
	02/27/97		9.56	96.87	---	No free product/no sheen
	05/30/97		12.04	94.39	39.92	No free product/no sheen
	07/30/97		14.37	92.06	39.91	No free product/no sheen
	12/04/97		13.78	92.65	39.93	No free product/no sheen
	02/17/98		6.03	100.40	39.92	No free product/no sheen
	05/18/98		8.85	97.58	39.96	No free product/no sheen
MW-20	02/15/96	105.91	10.47	95.44	---	No free product/no sheen
	05/29/96		10.35	95.56	---	No free product/no sheen
	08/15/96		13.67	92.24	---	No free product/no sheen
	11/20/96		15.85	90.06	---	No free product/no sheen
	02/27/97		8.79	97.12	---	No free product/no sheen
	05/30/97		12.30	93.61	33.29	No free product/no sheen
	07/30/97		14.84	91.07	33.27	No free product/no sheen
	12/04/97		14.01	91.90	33.27	No free product/no sheen
	02/17/98		5.64	100.27	33.27	No free product/no sheen
	05/18/98		8.36	97.55	33.28	No free product/no sheen
RW-1	02/15/96	105.17	15.13	90.04	---	No free product/no sheen
	05/29/96		13.77	91.40	---	No free product/no sheen
	08/15/96		16.53	88.64	---	No free product/no sheen
	11/20/96		19.81	85.36	---	No free product/no sheen
	02/27/97		10.12	95.05	---	No free product/no sheen
	05/30/97		14.62	90.55	35.20	No free product/no sheen
	07/30/97		16.95	88.22	35.22	No free product/no sheen
	12/04/97		16.21	88.96	35.23	No free product/no sheen
	02/17/98		6.19	98.98	35.23	No free product/no sheen
	05/18/98		8.85	96.32	35.21	No free product/no sheen

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.

2 = Elevation referenced to mean sea level.

Well Depth<sup>3</sup> = Measurement from top of casing to bottom of well.

4 = Well destroyed.

5 = Recovery Well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995, and replaced by recovery well RW-3A (total depth 45 feet).

--- = Not measured/not observed.

\*\* = Well has been dry or not listed for sampling since 3/92.

**TABLE 1**  
**GROUND WATER ELEVATION DATA**  
**BEACON STATION #700**  
**7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA**  
(Measurements in feet)

Monitoring/ Vapor Extraction Well	Date	Reference Elevation (top of casing) <sup>1</sup>	Depth to Ground Water <sup>1</sup>	Ground Water Elevation <sup>2</sup>	Well Depth <sup>3</sup>	Comments
RW-2	02/15/96	105.22	20.94	84.28	---	No free product/no sheen
	05/29/96		54.66	50.56	---	No free product/no sheen
	08/15/96		18.31	86.91	---	No free product/no sheen
	11/20/96		22.02	83.20	---	No free product/no sheen
	02/27/97		11.95	93.27	---	No free product/no sheen
	05/30/97		16.24	88.98	65.61	No free product/no sheen
	07/30/97		18.66	86.56	65.61	No free product/no sheen
	12/04/97		17.89	87.33	65.60	No free product/no sheen
	02/17/98		4.72	100.50	65.60	No free product/no sheen
	05/18/98		10.71	94.51	65.64	No free product/no sheen
RW-3	02/27/95 <sup>5</sup>					
RW-3A	02/15/96	105.72	10.25	95.47	---	No free product/no sheen
	05/29/96		11.23	94.49	---	No free product/no sheen
	08/15/96		13.97	91.75	---	No free product/no sheen
	11/20/96		16.90	88.82	---	No free product/no sheen
	02/27/97		8.80	96.92	---	No free product/no sheen
	05/30/97		12.47	93.25	38.89	No free product/no sheen
	07/30/97		14.93	90.79	38.87	No free product/no sheen
	12/04/97		13.42	92.30	38.88	No free product/no sheen
	02/17/98		4.81	100.91	38.82	No free product/no sheen
	05/18/98		8.59	97.13	38.82	No free product/no sheen

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.

2 = Elevation referenced to mean sea level.

Well Depth<sup>3</sup> = Measurement from top of casing to bottom of well.

4 = Well destroyed.

5 = Recovery Well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995, and replaced by recovery well RW-3A (total depth 45 feet).

--- = Not measured/not observed.

\*\* = Well has been dry or not listed for sampling since 3/92.

**TABLE 2**  
**GROUND WATER ANALYTICAL RESULTS**  
**BEACON STATION #700**  
**7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA**  
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organic Compounds				
		Gasoline	MTBE <sup>1</sup>	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-1	05/27/97 <sup>2</sup>						
MW-2	02/15/96	2,400*	NA	<2.5	<2.5	<2.5	<2.5
	05/29/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	1,300*	NA	<1.3	<1.3	<1.3	<1.3
	08/15/96	11,000	20,000	<50	<50	<50	<50
	11/20/96	9,500	13,000	<50	<50	<50	<50
	02/27/97	7,700	13,000	<13	<13	<13	<13
	05/30/97	<5,000	14,000	<50	<50	<50	<50
	07/30/97	<5,000	14,000	<50	54	<50	88
	12/04/97	48,000	3,900	<50	<50	<50	<50
	02/17/98	4,400	5,400	<50	<50	<50	<50
MW-3	02/15/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	<50	8.9	<0.5	<0.5	<0.5	<0.5
	11/20/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	05/30/97	<1,000	1,600	<10	<10	<10	<10
	07/30/97	<1,000	6,100	<10	<10	<10	<10
	12/04/97 <sup>3</sup>						
	02/17/98	<1,000	2,200	<10	<10	<10	<10
	05/18/98 <sup>4</sup>						
MW-4	02/15/96	210	NA	11	1	1.1	63
	05/29/96	<50	NA	1.9	<0.5	<0.5	1.1
	08/15/96	<50	7.6	2.4	<0.5	<0.5	1.5
	11/20/96	NS	NA	NS	NS	NS	NS
	02/27/97	<50	<5.0	0.68	<0.5	<0.5	<0.5
	05/30/97	<50	5.8	0.81	3.7	<0.50	0.78
	07/30/97	65	9.2	0.52	0.96	<0.50	0.85
	12/04/97 <sup>5</sup>						
	02/17/98	71	<5.0	<0.50	<0.50	<0.50	1.3
	05/18/98 <sup>5</sup>						
MW-5	02/15/96	<50	NA	0.58	<0.5	<0.5	<0.5
	05/29/96	<50	NA	0.65	<0.5	<0.5	<0.5
	08/15/96	<50	<5.0	1.5	<0.5	<0.5	<0.5
	11/20/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	<5.0	0.53	<0.50	<0.50	<0.50
	07/30/97	<50	<5.0	0.85	<0.50	<0.50	<0.50
	12/04/97	16,000	<25	<2.5	11	<2.5	99
	02/17/98	110	20	<0.50	0.58	<0.50	<0.50
	05/18/98	170	<5.0	0.67	<0.50	<0.50	<0.50

MTBE<sup>1</sup> = Methyl-Tertiary-Butyl Ether.

<sup>2</sup> = Well Destroyed.

< = Below indicated detection limit.

NA = Not Analyzed.

NS = Not Sampled.

\* = Product is not typical gasoline.

<sup>3</sup> = Not Sampled; Well Casing Bent.

<sup>4</sup> = Recovery well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995 and replaced by recovery well RW-3A (total depth 45 feet).

<sup>5</sup> = Well Not Sampled on This Date.

**TABLE 2**  
**GROUND WATER ANALYTICAL RESULTS**  
**BEACON STATION #700**  
**7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA**  
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organic Compounds				
		Gasoline	MTBE <sup>1</sup>	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-6	02/15/96 <sup>3</sup>						
	05/29/96 <sup>3</sup>						
	08/15/96 <sup>3</sup>						
	11/20/96 <sup>3</sup>						
	02/27/97	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	07/30/97 <sup>3</sup>						
	12/04/97 <sup>3</sup>						
	02/17/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	05/18/98 <sup>5</sup>						
MW-7	02/15/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	<50	6.8	<0.5	<0.5	<0.5	<0.5
	11/20/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	13	<0.50	<0.50	<0.50	<0.50
	07/30/97	<50	23	<0.50	<0.50	<0.50	<0.50
	12/04/97 <sup>5</sup>						
	02/17/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	05/18/98 <sup>5</sup>						
MW-8	02/15/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	67*	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	220	520	<0.5	<0.5	<0.5	<0.5
	11/20/96	5,100	8,600	<13	<13	<13	<13
	02/27/97	130	510	<0.5	<0.5	<0.5	<0.5
	05/30/97	130	75	<0.50	<0.50	<0.50	1.2
	07/30/97	<50	<5.0	0.57	<0.50	<0.50	<0.50
	12/04/97	<50	12	<0.50	<0.50	<0.50	<0.50
	02/17/98	<2,500	23,000	<25	<25	<25	32
	05/18/98	<50	1,100	<0.50	<0.50	<0.50	<0.50
MW-9	02/15/96	96*	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	100*	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	110	460	<0.5	<0.5	<0.5	<0.5
	11/20/96	<50	15	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	6.5	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	130	<0.50	<0.50	<0.50	<0.50
	07/30/97	<50	93	<0.50	<0.50	<0.50	<0.50
	12/04/97 <sup>5</sup>						
	02/17/98	56	<5.0	<0.50	<0.50	<0.50	<0.50
	05/18/98 <sup>5</sup>						

MTBE<sup>1</sup> = Methyl-Tertiary-Butyl Ether.

<sup>2</sup> = Well Destroyed.

< = Below indicated detection limit.

NA = Not Analyzed.

NS = Not Sampled.

\* = Product is not typical gasoline.

<sup>3</sup> = Not Sampled; Well Casing Bent.

<sup>4</sup> = Recovery well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995 and replaced by recovery well RW-3A (total depth 45 feet).

<sup>5</sup> = Well Not Sampled on This Date.

**TABLE 2**  
**GROUND WATER ANALYTICAL RESULTS**  
**BEACON STATION #700**  
**7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA**  
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organic Compounds				
		Gasoline	MTBE <sup>1</sup>	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-10	02/15/96	1,500	NA	20	0.76	30	120
	05/29/96	380	NA	2.7	<0.5	2.3	5.5
	08/15/96	1,100	<5.0	6.2	0.97	9.1	25
	11/20/96	830	<5.0	5.9	1.5	4	6.4
	02/27/97	350	<5.0	4	<0.5	0.53	2
	05/30/97	1,200	<5.0	2	1.8	5.7	11
	07/30/97	980	<5.0	1.4	1.6	5.1	15
	12/04/97	25,000	<25	<2.5	16	14	61
	02/17/98	3,000	26	26	2.9	54	270
	05/18/98	210	6.2	1.4	<0.50	1.7	14
MW-13	02/15/96	230*	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	<50	24	<0.5	<0.5	<0.5	<0.5
	11/20/96	<50	12	<0.5	<0.5	<0.5	0.6
	02/27/97	220	16,000	3.5	<0.5	<0.5	<0.5
	05/30/97	300	330	<1.0	<1.0	<1.0	<1.0
	07/30/97	<50	440	<1.0	<1.0	<1.0	<1.0
	12/04/97	<100	54	<1.0	<1.0	<1.0	<1.0
	02/17/98	<2,500	20,000	<25	<25	<25	<25
	05/18/98	<50	670	<0.50	<0.50	<0.50	<0.50
MW-14	02/15/96	53,000	NA	11,000	8,900	950	9,900
	05/29/96	340,000	NA	13,000	11,000	4,700	24,000
	08/15/96	65,000	<1,300	15,000	7,500	970	10,000
	11/20/96	150,000	<1,300	15,000	6,000	3,100	14,000
	02/27/97	75,000	<1,300	4,200	5,600	2,200	11,000
	05/30/97	66,000	3,200	13,000	3,100	1,900	6,400
	07/30/97	100,000	4,800	9,200	3,700	3,000	12,000
	12/04/97	10,000	1,400	110	53	730	4,200
	02/17/98	31,000	7,100	1,900	1,400	580	5,300
	05/18/98	<1,000	15,000	61	<10	34	170
MW-15	02/15/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	11/20/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	07/30/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/04/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	02/17/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	05/18/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50

MTBE<sup>1</sup> = Methyl-Tertiary-Butyl Ether.  
<sup>2</sup> = Well Destroyed.

< = Below indicated detection limit.

NA = Not Analyzed.

NS = Not Sampled.

\* = Product is not typical gasoline.

<sup>3</sup> = Not Sampled; Well Casing Bent.

<sup>4</sup> = Recovery well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995 and replaced by recovery well RW-3A (total depth 45 feet).

<sup>5</sup> = Well Not Sampled on This Date.

**TABLE 2**  
**GROUND WATER ANALYTICAL RESULTS**  
**BEACON STATION #700**  
**7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA**  
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organic Compounds				
		Gasoline	MTBE <sup>1</sup>	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-16	02/15/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	60	<5.0	<0.5	<0.5	<0.5	<0.5
	11/20/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	07/30/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/04/97 <sup>5</sup>						
	02/17/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	05/18/98 <sup>5</sup>						
MW-17	02/15/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	11/20/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	07/30/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/04/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	02/17/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	05/18/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
MW-18	02/15/96	110*	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	62*	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	97	180	<0.5	<0.5	<0.5	<0.5
	11/20/96	150	310	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	53	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	200	<0.50	<0.50	<0.50	<0.50
	07/30/97	<50	400	<0.50	<0.50	<0.50	<0.50
	12/04/97	<50	32	<0.50	<0.50	<0.50	<0.50
	02/17/98	<50	350	<0.50	<0.50	<0.50	<0.50
	05/18/98	<50	250	<0.50	<0.50	<0.50	<0.50
MW-19	02/15/96	1,400*	NA	40	37	<1.3	6.4
	05/29/96	990*	NA	<5.0	<5.0	<5.0	<5.0
	08/15/96	1,100	1,400	<2.5	<2.5	<2.5	<2.5
	11/20/96	1,000	1,600	<5.0	<5.0	<5.0	<5.0
	02/27/97	4,500	8,200	<13	<13	<13	<13
	05/30/97	<1,000	6,300	<10	<10	<10	<10
	07/30/97	<1,000	6,200	<10	<10	<10	<10
	12/04/97	<1,000	2,500	<10	<10	<10	<10
	02/17/98	<25,000	120,000	<250	<250	<250	<250
	05/18/98	<25,000	85,000	<250	<250	<250	<250

**MTBE<sup>1</sup>** = Methyl-Tertiary-Butyl Ether.  
<sup>2</sup> = Well Destroyed.  
< = Below indicated detection limit.  
**NA** = Not Analyzed.  
**NS** = Not Sampled.  
\* = Product is not typical gasoline.  
<sup>3</sup> = Not Sampled; Well Casing Bent.  
<sup>4</sup> = Recovery well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995 and replaced by recovery well RW-3A (total depth 45 feet).  
<sup>5</sup> = Well Not Sampled On This Date.

**TABLE 2**  
**GROUND WATER ANALYTICAL RESULTS**  
**BEACON STATION #700**  
**7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA**  
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organic Compounds				
			Gasoline	MTBE <sup>1</sup>	Benzene	Toluene	Ethyl-benzene
MW-20	02/15/96	390	NA	1.3	<0.5	13	28
	05/29/96	310	NA	2.6	1.3	11	18
	08/15/96	<50	<5.0	<0.5	<0.5	0.76	2
	11/20/96	<50	<5.0	<0.5	<0.5	0.55	1.7
	02/27/97	110	<5.0	<0.5	<0.5	2.1	1.9
	05/30/97	160	<5.0	<0.50	<0.50	3.7	5.7
	07/30/97	<50	<5.0	<0.50	<0.50	1.2	2.2
	12/04/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	02/17/98	180	<5.0	<0.50	<0.50	3.9	4.6
	05/18/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
RW-1	02/15/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	<50	NA	<0.5	1.4	<0.5	<0.5
	08/15/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	11/20/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	<5.0	<0.50	0.89	<0.50	<0.50
	07/30/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/04/97 <sup>5</sup>						
	02/17/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	05/18/98 <sup>5</sup>						
RW-2	02/15/96	57	NA	7	<0.5	<0.5	1.8
	05/29/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	<50	18	17	<0.5	<0.5	4
	11/20/96	70	24	16	0.53	2	3.4
	02/27/97	<50	20	<0.5	<0.5	<0.5	<0.5
	05/30/97	4,500	300	450	76	28	510
	07/30/97	5,300	350	370	63	180	650
	12/04/97	<50	54	<0.50	<0.50	<0.50	<0.50
	02/17/98	<50	46	<0.50	<0.50	<0.50	<0.50
	05/18/98	<50	84	<0.50	<0.50	<0.50	<0.50
RW-3	02/27/95 <sup>4</sup>						
RW-3A	02/15/96	10,000	NA	120	<13	<13	810
	05/29/96	9,900*	NA	220	65	31	1,200
	08/15/96	18,000	26,000	<50	<50	<50	<50
	11/20/96	15,000	27,000	130	24	270	1,500
	02/27/97	16,000	21,000	82	<25	100	450
	05/30/97	<5,000	11,000	78	62	90	320
	07/30/97	<5,000	20,000	120	<50	200	630
	12/04/97	<5,000	20,000	<50	<50	<50	<50
	02/17/98	3,600	10,000	<50	<50	<50	<50
	05/18/98	<5,000	17,000	66	<50	<50	150

MTBE<sup>1</sup> = Methyl-Tertiary-Butyl Ether.

<sup>2</sup> = Well Destroyed.

< = Below indicated detection limit.

NA = Not Analyzed.

NS = Not Sampled.

\* = Product is not typical gasoline.

<sup>3</sup> = Not Sampled; Well Casing Bent.

<sup>4</sup> = Recovery well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995 and replaced by recovery well RW-3A (total depth 45 feet).

<sup>5</sup> = Well Not Sampled on This Date.

**ENCLOSURE E**

Remediation System Analytical Results



Report Number : 44952

Date : 7/29/2005

Richard Munsch  
RDM Environmental  
6280 Brookshire Drive  
Rocklin, CA 95677

Subject : 2 Water Samples  
Project Name : Tesoro No. 67062  
Project Number : 67062  
P.O. Number : 67062

Dear Mr. Munsch,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 44952

Date : 7/29/2005

Project Name : Tesoro No. 67062

Project Number : 67062

Sample : GW-Inf

Matrix : Water

Lab Number : 44952-01

Sample Date : 7/21/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	16	0.90	ug/L	EPA 8260B	7/28/2005
Toluene	0.91	0.90	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	2.1	0.90	ug/L	EPA 8260B	7/28/2005
Total Xylenes	7.2	0.90	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	260	0.90	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	< 0.90	0.90	ug/L	EPA 8260B	7/28/2005
Ethyl-t-butyl ether (ETBE)	< 0.90	0.90	ug/L	EPA 8260B	7/28/2005
Tert-amyl methyl ether (TAME)	< 0.90	0.90	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	2500	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	730	90	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	97.8		% Recovery	EPA 8260B	7/28/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 44952

Date : 7/29/2005

Project Name : Tesoro No. 67062

Project Number : 67062

Sample : GW-Eff

Matrix : Water

Lab Number : 44952-02

Sample Date : 7/21/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/26/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/26/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/26/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/26/2005
Methyl-t-butyl ether (MTBE)	0.82	0.50	ug/L	EPA 8260B	7/26/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/26/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/26/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/26/2005
Tert-Butanol	150	5.0	ug/L	EPA 8260B	7/26/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/26/2005
Toluene - d8 (Surr)	94.0		% Recovery	EPA 8260B	7/26/2005
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	7/26/2005

Approved By: Joel Kiff

Report Number : 44952

Date : 7/29/2005

## QC Report : Method Blank Data

Project Name : Tesoro No. 67062

Project Number : 67062

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surrogate)	98.7		%	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surrogate)	98.3		%	EPA 8260B	7/28/2005
<hr/>					
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/26/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/26/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/26/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/26/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/26/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/26/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/26/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/26/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/26/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/26/2005
Toluene - d8 (Surrogate)	94.2		%	EPA 8260B	7/26/2005
4-Bromofluorobenzene (Surrogate)	104		%	EPA 8260B	7/26/2005

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
------------------	-----------------------	-------------------------------	--------------	------------------------	----------------------

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC  
2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 44952

Date : 7/29/2005

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : Tesoro No. 67062

Project Number : 67062

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	44953-03	<0.50	40.0	40.0	43.6	43.1	ug/L	EPA 8260B	7/28/05	109	108	1.06	70-130	25
Toluene	44953-03	<0.50	40.0	40.0	41.2	41.0	ug/L	EPA 8260B	7/28/05	103	102	0.407	70-130	25
Tert-Butanol	44953-03	<5.0	200	200	199	200	ug/L	EPA 8260B	7/28/05	99.6	100	0.387	70-130	25
Methyl-t-Butyl Ether	44953-03	0.59	40.0	40.0	35.5	36.3	ug/L	EPA 8260B	7/28/05	87.2	89.4	2.47	70-130	25
Benzene	44961-22	<0.50	40.0	40.0	40.5	39.4	ug/L	EPA 8260B	7/26/05	101	98.4	2.81	70-130	25
Toluene	44961-22	<0.50	40.0	40.0	37.4	36.5	ug/L	EPA 8260B	7/26/05	93.4	91.2	2.34	70-130	25
Tert-Butanol	44961-22	<5.0	200	200	196	196	ug/L	EPA 8260B	7/26/05	98.0	98.0	0.00431	70-130	25
Methyl-t-Butyl Ether	44961-22	<0.50	40.0	40.0	39.7	39.1	ug/L	EPA 8260B	7/26/05	99.4	97.7	1.63	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: Joe Kiff



Report Number : 44952

QC Report : Laboratory Control Sample (LCS)

Date : 7/29/2005

Project Name : Tesoro No. 67062

Project Number : 67062

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	7/28/05	109	70-130
Toluene	40.0	ug/L	EPA 8260B	7/28/05	106	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/28/05	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/28/05	90.1	70-130
Benzene	40.0	ug/L	EPA 8260B	7/26/05	100	70-130
Toluene	40.0	ug/L	EPA 8260B	7/26/05	98.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/26/05	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/26/05	98.0	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joe Kiff





## Analysis Summary

Report Number : 44952

Date : 7/29/2005

Attention : Richard Munsch  
RDM Environmental  
6280 Brookshire Drive  
Rocklin, CA 95677

Project Name : Tesoro No. 67062  
Project Number : 67062

Analyte	Method	Units	GW-Inf		GW-Eff	
			Sample Date	7/21/2005	MRL	Results
Benzene	EPA 8260B	ug/L	0.90	16	0.50	ND
Toluene	EPA 8260B	ug/L	0.90	0.91	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.90	2.1	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.90	7.2	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.90	260	0.50	0.82
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.90	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.90	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.90	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	2500	5.0	150
TPH as Gasoline	EPA 8260B	ug/L	90	730	50	ND
Toluene - d8 (Surrogate)	EPA 8260B	%		99.2		94.0
4-Bromofluorobenzene (Surrogate)	EPA 8260B	%		97.8		104

MRL = Method Reporting Limit

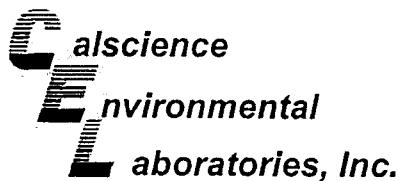
ND = Not Detected

Approved By,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800  
ELAP # 2236



July 27, 2005

Joel Kiff  
Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 05-07-1344**  
**Client Reference: Tesoro No. 67062**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/23/2005 and analyzed in accordance with the attached chain-of-custody.

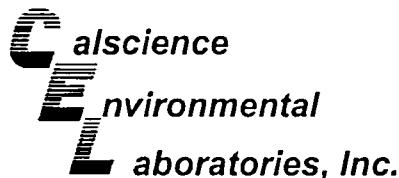
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Stephen Nowak".

Calscience Environmental  
Laboratories, Inc.  
Stephen Nowak  
Project Manager



## Analytical Report

Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Date Received: 07/23/05  
Work Order No: 05-07-1344  
Preparation: EPA 3010A Total  
Method: EPA 6010B  
Units: mg/L

Project: Tesoro No. 67062

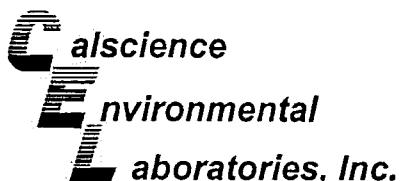
Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID			
GW-Eff	05-07-1344-1	07/21/05	Aqueous	07/25/05	07/26/05	050725L03			
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Copper	0.00506	0.00500	1		Zinc	0.0275	0.0100	1	
Lead	ND	0.0100	1						
Method Blank		097-01-003-5,146	N/A	Aqueous	07/25/05	07/25/05	050725L03		
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



## Quality Control - Spike/Spike Duplicate



Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Date Received: 07/23/05  
Work Order No: 05-07-1344  
Preparation: EPA 3010A Total  
Method: EPA 6010B

Project Tesoro No. 67062

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GW-Eff	Aqueous	ICP 3300	07/25/05	07/26/05	050725S03

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Copper	95	96	80-120	1	0-20	
Lead	98	100	80-120	2	0-20	
Zinc	105	105	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



**Environmental Quality Control - Laboratory Control Sample**

Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

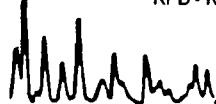
Date Received: N/A  
Work Order No: 05-07-1344  
Preparation: EPA 3010A Total  
Method: EPA 6010B

Project: Tesoro No. 67062

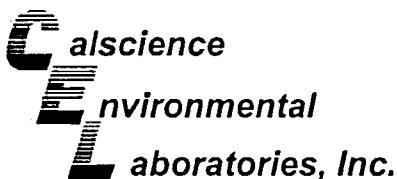
Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-5,146	Aqueous	ICP 3300	07/25/05	050725-I-03	050725L03

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Copper	0.500	0.466	93	80-120	
Lead	0.500	0.505	101	80-120	
Zinc	0.500	0.511	102	80-120	

RPD - Relative Percent Difference , CL - Control Limit



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

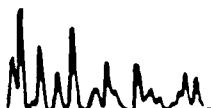


## Glossary of Terms and Qualifiers



Work Order Number: 05-07-1344

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.





2795 Second Street, Suite 300  
Davis, CA 95616  
Lab: 530.297.4800  
Fax: 530.297.4808

**Cal Science Environmental  
7440 Lincoln Way  
Garden Grove, CA 92841  
714-895-5494**

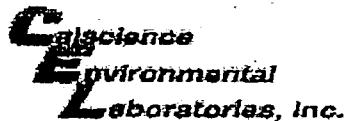
1344

Lab No.

Page 1 of 1

Relinquished by: <i>Sayleth Kiff Analytical</i>	Date 07/22/05	Time 19:00	Received by:	Remarks:
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date	Time	Received by Laboratory: <i>[Signature]</i>	Bill to: Accounts Payable

71238 Choo



WORK ORDER #:

05 - 07 - 1344

Cooler 1 of 1

**SAMPLE RECEIPT FORM**

CLIENT: Kiff Analytical

DATE: 7/23/05

**TEMPERATURE – SAMPLES RECEIVED BY:****CALSCIENCE COURIER:**

- Chilled, cooler with temperature blank provided.  
 Chilled, cooler without temperature blank.  
 Chilled and placed in cooler with wet ice.  
 Ambient and placed in cooler with wet ice.  
 Ambient temperature.  
 °C Temperature blank.

**LABORATORY (Other than Calscience Courier):**

- 35 °C Temperature blank.  
 °C IR thermometer.  
 Ambient temperature.

Initial: JL**CUSTODY SEAL INTACT:**Sample(s): \_\_\_\_\_ Cooler: / No (Not Intact): \_\_\_\_\_ Not Applicable (N/A): \_\_\_\_\_Initial: JL**SAMPLE CONDITION:**

- |   | Yes      | No    | N/A      |
|---|----------|-------|----------|
| Chain-Of-Custody document(s) received with samples.....       | <u>/</u> | ..... | .....    |
| Sample container label(s) consistent with custody papers..... | <u>/</u> | ..... | .....    |
| Sample container(s) intact and good condition.....            | <u>/</u> | ..... | .....    |
| Correct containers for analyses requested.....                | <u>/</u> | ..... | .....    |
| Proper preservation noted on sample label(s).....             | <u>/</u> | ..... | .....    |
| VOA vial(s) free of headspace.....                            | .....    | ..... | <u>/</u> |
| Tedlar bag(s) free of condensation.....                       | .....    | ..... | <u>/</u> |

Initial: JL**COMMENTS:**


---

---

---

---

---

---

---



2795 2nd Street, Suite 300  
Davis, CA 95616  
Lab: 530.297.4800  
Fax: 530.297.4802

SRG # / Lab No.

44952

Page 1 of 1

Project Contact (Handcopy or PDF To):

*Richard Munsell*

California EDF Report?

Yes     No

Company / Address:

RPM Environmental

Phone #:

(916) 415-1134

Fax #:

(916) 415-1154

Project #:

67062

P.O. #:

67062

Project Name:

Tesoro No. 67062

Project Address:

Cotati Ct

Sampling	Container	Preservative	Matrix
----------	-----------	--------------	--------



Report Number : 45667

Date : 09/07/2005

Richard Munsch  
RDM Environmental  
6280 Brookshire Drive  
Rocklin, CA 95677

Subject : 2 Water Samples  
Project Name : Tesoro Station 67062  
Project Number : 67062  
P.O. Number : 67062

Dear Mr. Munsch,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 45667

Date : 09/07/2005

Project Name : Tesoro Station 67062

Project Number : 67062

Sample : GW-Inf

Matrix : Water

Lab Number : 45667-01

Sample Date : 08/29/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	17	0.90	ug/L	EPA 8260B	09/01/2005
Toluene	0.99	0.90	ug/L	EPA 8260B	09/01/2005
Ethylbenzene	1.4	0.90	ug/L	EPA 8260B	09/01/2005
Total Xylenes	5.8	0.90	ug/L	EPA 8260B	09/01/2005
Methyl-t-butyl ether (MTBE)	260	0.90	ug/L	EPA 8260B	09/01/2005
Diisopropyl ether (DIPE)	< 0.90	0.90	ug/L	EPA 8260B	09/01/2005
Ethyl-t-butyl ether (ETBE)	< 0.90	0.90	ug/L	EPA 8260B	09/01/2005
Tert-amyl methyl ether (TAME)	< 0.90	0.90	ug/L	EPA 8260B	09/01/2005
Tert-Butanol	2200	5.0	ug/L	EPA 8260B	09/01/2005
TPH as Gasoline	740	90	ug/L	EPA 8260B	09/01/2005
Toluene - d8 (Surr)	97.1		% Recovery	EPA 8260B	09/01/2005
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	09/01/2005

Approved By:

Joe Kiff



Report Number : 45667

Date : 09/07/2005

Project Name : Tesoro Station 67062

Project Number : 67062

Sample : GW-Eff

Matrix : Water

Lab Number : 45667-02

Sample Date : 08/29/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/07/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/07/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/07/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/07/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/07/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/07/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/07/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/07/2005
Tert-Butanol	71	5.0	ug/L	EPA 8260B	09/07/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/07/2005
Toluene - d8 (Surr)	95.2		% Recovery	EPA 8260B	09/07/2005
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	09/07/2005

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45667

Date : 09/07/2005

QC Report : Method Blank Data

Project Name : Tesoro Station 67062

Project Number : 67062

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	08/31/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	08/31/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	08/31/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	08/31/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	08/31/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	08/31/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	08/31/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	08/31/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	08/31/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	08/31/2005
Toluene - d8 (Surr)	96.1		%	EPA 8260B	08/31/2005
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	08/31/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/07/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/07/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/07/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/07/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/07/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/07/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/07/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/07/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/07/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/07/2005
Toluene - d8 (Surr)	96.2		%	EPA 8260B	09/07/2005
4-Bromofluorobenzene (Surr)	99.5		%	EPA 8260B	09/07/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
-----------	----------------	------------------------	-------	-----------------	---------------

Approved By: Joel Kiff

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 45667

Date : 09/07/2005

Project Name : Tesoro Station 67062

Project Number : 67062

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	45643-01	<0.50	40.0	40.0	39.4	38.7	ug/L	EPA 8260B	8/31/05	98.5	96.7	1.85	70-130	25
Toluene	45643-01	<0.50	40.0	40.0	38.3	37.5	ug/L	EPA 8260B	8/31/05	95.7	93.8	2.01	70-130	25
Tert-Butanol	45643-01	<5.0	200	200	195	194	ug/L	EPA 8260B	8/31/05	97.6	97.3	0.332	70-130	25
Methyl-t-Butyl Ether	45643-01	<0.50	40.0	40.0	40.9	40.0	ug/L	EPA 8260B	8/31/05	102	100	2.08	70-130	25
Benzene	45749-02	<0.50	40.0	40.0	40.5	40.0	ug/L	EPA 8260B	9/7/05	101	99.9	1.30	70-130	25
Toluene	45749-02	3.2	40.0	40.0	40.8	40.6	ug/L	EPA 8260B	9/7/05	93.9	93.5	0.384	70-130	25
Tert-Butanol	45749-02	<5.0	200	200	191	192	ug/L	EPA 8260B	9/7/05	95.4	95.9	0.454	70-130	25
Methyl-t-Butyl Ether	45749-02	14	40.0	40.0	56.7	56.5	ug/L	EPA 8260B	9/7/05	106	105	0.405	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: Joe Kiff



Report Number : 45667

Date : 09/07/2005

QC Report : Laboratory Control Sample (LCS)

Project Name : Tesoro Station 67062

Project Number : 67062

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	8/31/05	94.9	70-130
Toluene	40.0	ug/L	EPA 8260B	8/31/05	92.5	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/31/05	94.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/31/05	98.9	70-130
Benzene	40.0	ug/L	EPA 8260B	9/7/05	101	70-130
Toluene	40.0	ug/L	EPA 8260B	9/7/05	99.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/7/05	98.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/7/05	104	70-130

KIFF ANALYTICAL, LLC

Approved By:

Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



## Analysis Summary

Report Number : 45667

Date : 09/07/05

Attention : Richard Munsch  
RDM Environmental  
6280 Brookshire Drive  
Rocklin, CA 95677

Project Name : Tesoro Station 67062

Project Number : 67062

Analyte	Method	Units	Sample Name		GW-Inf	GW-Eff
			Sample Date	MRL	Results	MRL
Benzene	EPA 8260B	ug/L	0.90	17	0.50	ND
Toluene	EPA 8260B	ug/L	0.90	0.99	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.90	1.4	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.90	5.8	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.90	260	0.50	ND
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.90	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.90	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.90	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	2200	5.0	71
TPH as Gasoline	EPA 8260B	ug/L	90	740	50	ND
Toluene - d8 (Surr)	EPA 8260B	%		97.1		95.2
4-Bromofluorobenzene (Surr)	EPA 8260B	%		101		102

MRL = Method Reporting Limit

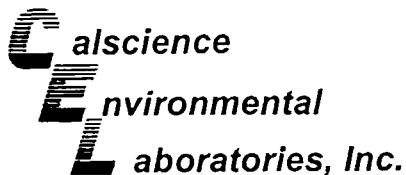
ND = Not Detected

Approved By,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800  
ELAP # 2236



September 06, 2005

Joel Kiff  
Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Subject: Calscience Work Order No.: 05-09-0001  
Client Reference: Tesoro Station 67062

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/1/2005 and analyzed in accordance with the attached chain-of-custody.

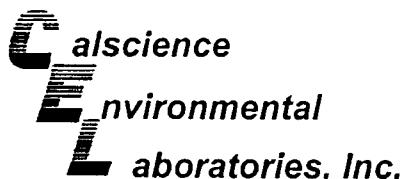
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Stephen Nowak".

Calscience Environmental  
Laboratories, Inc.  
Stephen Nowak  
Project Manager



## Analytical Report

Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Date Received: 09/01/05  
Work Order No: 05-09-0001  
Preparation: EPA 3010A Total  
Method: EPA 6010B  
Units: mg/L

Project: Tesoro Station 67062

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GW-Eff	05-09-0001-1	08/29/05	Aqueous	09/01/05	09/02/05	050901L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Copper	ND	0.00500	1		Zinc	0.0919	0.01	1	
Lead	ND	0.0100	1						

Method Blank	097-01-003-5,288	N/A	Aqueous	09/01/05	09/01/05	050901L04
--------------	------------------	-----	---------	----------	----------	-----------

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

**Environmental  
Laboratories, Inc.**
**Quality Control - Spike/Spike Duplicate**

Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Date Received: 09/01/05  
Work Order No: 05-09-0001  
Preparation: EPA 3010A Total  
Method: EPA 200.7

Project Tesoro Station 67062

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-09-0042-1	Aqueous	ICP 3300	09/01/05	09/02/05	050901S04

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Copper	104	103	80-120	1	0-20	
Lead	105	104	80-120	1	0-20	
Zinc	116	114	80-120	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

**Environmental Quality Control - Laboratory Control Sample  
Laboratories, Inc.**


Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Date Received: N/A  
Work Order No: 05-09-0001  
Preparation: EPA 3010A Total  
Method: EPA 6010B

**Project:** Tesoro Station 67062

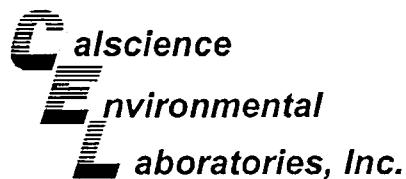
Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-5;288	Aqueous	ICP 3300	09/01/05	050901-I-04	050901L04

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Copper	0.500	0.515	103	80-120	
Lead	0.500	0.561	112	80-120	
Zinc	0.500	0.554	111	80-120	

RPD - Relative Percent Difference , CL - Control Limit



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



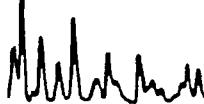
## Glossary of Terms and Qualifiers



Work Order Number: 05-09-0001

---

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.





2795 Second Street, Suite 300  
Davis, CA 95616  
Lab: 530.297.4800  
Fax: 530.297.4808

**Cal Science Environmental  
7440 Lincoln Way  
Garden Grove, CA 92841  
714-895-5494**

Lab No.

Page 1 of 1



WORK ORDER #:

05 - 09 - 00001

Cooler 1 of 1

**SAMPLE RECEIPT FORM**

CLIENT: KIFF ANALYTICAL

DATE: 9-1-05

**TEMPERATURE – SAMPLES RECEIVED BY:****CALSCIENCE COURIER:**

- Chilled, cooler with temperature blank provided.  
 Chilled, cooler without temperature blank.  
 Chilled and placed in cooler with wet ice.  
 Ambient and placed in cooler with wet ice.  
 Ambient temperature.  
 °C Temperature blank.

**LABORATORY (Other than Calscience Courier):**

- 3.2 °C Temperature blank.  
 °C IR thermometer.  
 Ambient temperature.

Initial: WB

**CUSTODY SEAL INTACT:**Sample(s): \_\_\_\_\_ Cooler:  No (Not Intact): \_\_\_\_\_ Not Applicable (N/A): \_\_\_\_\_

Initial: WB

**SAMPLE CONDITION:**

	Yes	No	N/A
--	-----	----	-----

- Chain-Of-Custody document(s) received with samples.....  .....  
 Sample container label(s) consistent with custody papers.....  .....  
 Sample container(s) intact and good condition.....  .....  
 Correct containers for analyses requested.....  .....  
 Proper preservation noted on sample label(s).....  .....  
 VOA vial(s) free of headspace. ....  .....  
 Tedlar bag(s) free of condensation.....  .....

Initial: WB

**COMMENTS:**


---

---

---

---

---

---

---

---

---

Project Contact (Hardcopy or PDF To):

*Richard Munsel*

California EDF Report?  Yes  No

Company / Address:

*RDM Environmental*

Sampling Company Log Code:

Phone #: (916) 415-1124

Fax #: (916) 415-1159

Global ID:

Project #: 67062

P.O. #: 67062

EDF Deliverable To (Email Address):

Project Name:

*Terror Station 67062*

Sampler Signature: *Richard Munsel*

Project Address:

*Catati CA*

Sampling

Container

Preservative

Matrix

Sample Designation

Date

Time

40 ml VOA

Sleeve

Poly

Glass

Tedlar

HCl

HNO<sub>3</sub>

None

Water

Soil

Air

MTBE (EPA 8260B) per EPA 8021 Level @ 5.0 ppb

MTBE (EPA 8260B) @ 0.5 ppb

BTEX (EPA 8260B)

TPH Gas (EPA 8260B)

5 Oxygenates (EPA 8260B)

7 Oxygenates (EPA 8260B)

Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)

Volatile Halocarbons (EPA 8260B)

Volatile Organics Full List (EPA 8260B)

Volatile Organics (EPA 824.2 Drinking Water)

TPH as Diesel (EPA 8015M)

TPH as Motor Oil (EPA 8015M)

Total Lead (EPA 8010)

W.E.T. Lead (STLC)

*Catati, CA*

01-02

12 hr  
24 hr  
48 hr  
72 hr  
1 wk

For Lab Use Only

Relinquished by:

Date

8/30/05

Time

5:00

Received by:

Remarks:

*STAT*

Relinquished by:

Date

083001

Time

1700

Received by:

Relinquished by:

Date

083001

Time

1700

Received by Laboratory:

Sample Receipt

Temp °C: 1.0 Therm. ID #: 10-1

Initials: *MW* Date: 083001 Time: 1825

Coolant present: Yes / No

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No



Report Number : 46180

Date : 10/4/2005

Richard Munsch  
RDM Environmental  
6280 Brookshire Drive  
Rocklin, CA 95677

Subject : 2 Water Samples  
Project Name : Tesoro Station 67062  
Project Number : 67062  
P.O. Number : 67082

Dear Mr. Munsch,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

  
Joel Kiff



Report Number : 46180

Date : 10/4/2005

Subject : 2 Water Samples  
Project Name : Tesoro Station 67062  
Project Number : 67062  
P.O. Number : 67082

## Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with samples GW-Eff, GW-Inf for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By:

A handwritten signature in black ink that reads "Joe Kiff". The signature is written over a horizontal line. Below the line, the name "Joe Kiff" is printed in a smaller, standard font.

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



Report Number : 46180

Date : 10/4/2005

Project Name : Tesoro Station 67062

Project Number : 67062

Sample : GW-Inf

Matrix : Water

Lab Number : 46180-01

Sample Date : 9/26/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	15	0.90	ug/L	EPA 8260B	10/1/2005
Toluene	< 0.90	0.90	ug/L	EPA 8260B	10/1/2005
Ethylbenzene	1.3	0.90	ug/L	EPA 8260B	10/1/2005
Total Xylenes	3.2	0.90	ug/L	EPA 8260B	10/1/2005
Methyl-t-butyl ether (MTBE)	250	0.90	ug/L	EPA 8260B	10/1/2005
Diisopropyl ether (DIPE)	< 0.90	0.90	ug/L	EPA 8260B	10/1/2005
Ethyl-t-butyl ether (ETBE)	< 0.90	0.90	ug/L	EPA 8260B	10/1/2005
Tert-amyl methyl ether (TAME)	< 0.90	0.90	ug/L	EPA 8260B	10/1/2005
Tert-Butanol	2400	5.0	ug/L	EPA 8260B	10/1/2005
TPH as Gasoline	480	90	ug/L	EPA 8260B	10/1/2005
Toluene - d8 (Surrogate)	102		% Recovery	EPA 8260B	10/1/2005
4-Bromofluorobenzene (Surrogate)	93.4		% Recovery	EPA 8260B	10/1/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 46180

Date : 10/4/2005

Project Name : Tesoro Station 67062

Project Number : 67062

Sample : GW-Eff

Matrix : Water

Lab Number : 46180-02

Sample Date : 9/26/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/1/2005
Methyl-t-butyl ether (MTBE)	2.0	0.50	ug/L	EPA 8260B	10/1/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	10/1/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/1/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/1/2005
Tert-Butanol	120	5.0	ug/L	EPA 8260B	10/1/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/1/2005
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/1/2005
4-Bromofluorobenzene (Surr)	93.2		% Recovery	EPA 8260B	10/1/2005

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

**QC Report : Method Blank Data****Project Name : Tesoro Station 67062****Project Number : 67062**

Report Number : 46180

Date : 10/4/2005

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/30/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/30/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/30/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/30/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/30/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/30/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/30/2005
Toluene - d8 (Surrogate)	101	%		EPA 8260B	9/30/2005
4-Bromofluorobenzene (Surrogate)	93.8	%		EPA 8260B	9/30/2005

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
------------------	-----------------------	-------------------------------	--------------	------------------------	----------------------



Report Number : 46180

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 10/4/2005

Project Name : Tesoro Station 67062

Project Number : 67062

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	46186-01	<0.50	40.0	40.0	39.4	37.7	ug/L	EPA 8260B	9/30/05	98.6	94.4	4.44	70-130	25
Toluene	46186-01	<0.50	40.0	40.0	39.1	36.8	ug/L	EPA 8260B	9/30/05	97.7	92.1	5.92	70-130	25
Tert-Butanol	46186-01	8.0	200	200	205	206	ug/L	EPA 8260B	9/30/05	98.7	99.0	0.340	70-130	25
Methyl-t-Butyl Ether	46186-01	81	40.0	40.0	94.4	92.9	ug/L	EPA 8260B	9/30/05	33.5	29.7	12.0	70-130	25

Approved By: Joe Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 46180

Date : 10/4/2005

QC Report : Laboratory Control Sample (LCS)

Project Name : Tesoro Station 67062

Project Number : 67062

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	9/30/05	97.7	70-130
Toluene	40.0	ug/L	EPA 8260B	9/30/05	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/30/05	97.5	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/30/05	93.4	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joel Kiff



## Analysis Summary

Attention : Richard Munsch  
RDM Environmental  
6280 Brookshire Drive  
Rocklin, CA 95677

Project Name :Tesoro Station 67062

Project Number : 67062

Report Number : 46180

Date : 10/4/2005

Analyte	Method	Units	GW-Inf		GW-Eff	
			MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.90	15	0.50	ND
Toluene	EPA 8260B	ug/L	0.90	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.90	1.3	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.90	3.2	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.90	250	0.50	2.0
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.90	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.90	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.90	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	2400	5.0	120
TPH as Gasoline	EPA 8260B	ug/L	90	480	50	ND
Toluene - d8 (Surrogate)	EPA 8260B	%		102		102
4-Bromofluorobenzene (Surrogate)	EPA 8260B	%		93.4		93.2

MRL = Method Reporting Limit

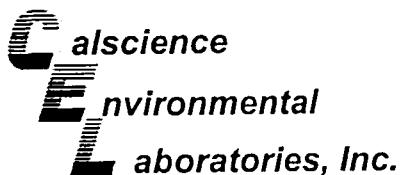
ND = Not Detected

Approved By,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800  
ELAP # 2236



October 04, 2005

Joel Kiff  
Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Subject: Calscience Work Order No.: 05-09-1603  
Client Reference: Tesoro Station 67062

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/28/2005 and analyzed in accordance with the attached chain-of-custody.

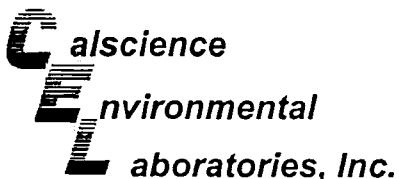
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Stephen Nowak".

Calscience Environmental  
Laboratories, Inc.  
Stephen Nowak  
Project Manager



## Analytical Report



Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Date Received: 09/28/05  
Work Order No: 05-09-1603  
Preparation: EPA 3010A Total  
Method: EPA 6010B  
Units: mg/L

Project: Tesoro Station 67062

Page 1 of 1

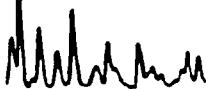
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GW-Eff	05-09-1603-1	09/26/05	Aqueous	09/28/05	09/29/05	050928L09

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Copper	ND	0.00500	1		Zinc	0.160	0.01	1	
Lead	ND	0.0100	1						

Method Blank	097-01-003-5,368	N/A	Aqueous	09/28/05	09/28/05	050928L09
--------------	------------------	-----	---------	----------	----------	-----------

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



## Quality Control - Spike/Spike Duplicate

Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Date Received: 09/28/05  
Work Order No: 05-09-1603  
Preparation: EPA 3010A Total  
Method: EPA 6010B

Project Tesoro Station 67062

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-09-1651-1	Aqueous	ICP 3300	09/28/05	09/29/05	050928S09

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Copper	103	99	80-120	3	0-20	
Lead	108	104	80-120	3	0-20	
Zinc	112	105	80-120	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

**Calscience****E**nvironmental Quality Control - Laboratory Control Sample  
**L**aboratories, Inc.

Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Date Received: N/A  
Work Order No: 05-09-1603  
Preparation: EPA 3010A Total  
Method: EPA 6010B

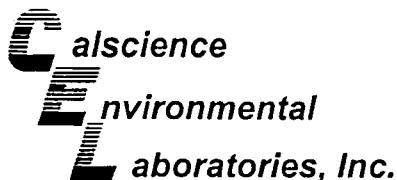
Project: Tesoro Station 67062

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-5,368	Aqueous	ICP 3300	09/28/05	050928-I-09	050928L09

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Copper	0.500	0.484	97	80-120	
Lead	0.500	0.511	102	80-120	
Zinc	0.500	0.534	107	80-120	

RPD - Relative Percent Difference . CL - Control Limit

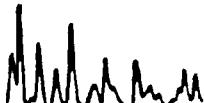
7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



## Glossary of Terms and Qualifiers

Work Order Number: 05-09-1603

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.





2795 Second Street, Suite 300  
Davis, CA 95616  
Lab: 530.297.4800  
Fax: 530.297.4808

Cal Science Environmental  
7440 Lincoln Way  
Garden Grove, CA 92841  
714-895-5494

Lab No.

11603

Page 1 of 1

Project Contact (Hardcopy or PDF to):

Troy Turpen

Company/Address:

Kiff Analytical, LLC

Phone No.:

FAX No.:

Project Number:

67062

P.O. No.:

46180

Project Name:

Tesoro Station 67062

Project Address:

Sampling

Container

Preservative

Matrix

Sample Designation

Date

Time

Glass Jar

Poly

Amber

VOA

Tedlar

H<sub>2</sub>SO<sub>4</sub>

HNO<sub>3</sub>

ICE

NONE

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

WATER

SOIL

AIR

GW-Eff

9/26/05

3:08

1

X

X

Pb, Cu, Zn

October 4, 2005

For Lab Use Only

Relinquished by: <i>Troy Turpen</i>	Date 1900	Time 1900	Received by: <i>Walt</i>	Remarks:
Relinquished by: <i>CO</i>	Date 9-28-05	Time 0900	Received by Laboratory: <i>Walt</i>	Bill to: Accounts Payable



WORK ORDER #:

05 -  9 -  1  6  0  3Cooler 1 of 1**SAMPLE RECEIPT FORM**

CLIENT: KIFF ANALYTICAL

DATE: 9-28-05

**TEMPERATURE – SAMPLES RECEIVED BY:****CALSCIENCE COURIER:**

- Chilled, cooler with temperature blank provided.
- Chilled, cooler without temperature blank.
- Chilled and placed in cooler with wet ice.
- Ambient and placed in cooler with wet ice.
- Ambient temperature.
- °C Temperature blank.

**LABORATORY (Other than Calscience Courier):**

- 3.3 °C Temperature blank.
- °C IR thermometer.
- Ambient temperature.

Initial: WB**CUSTODY SEAL INTACT:**

Sample(s): \_\_\_\_\_ Cooler:  No (Not Intact) : \_\_\_\_\_ Not Applicable (N/A): \_\_\_\_\_  
 Initial: WB

**SAMPLE CONDITION:**

- |   | Yes                                 | No                       | N/A                                 |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody document(s) received with samples.....       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Sample container label(s) consistent with custody papers..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Sample container(s) intact and good condition.....            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Correct containers for analyses requested.....                | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Proper preservation noted on sample label(s).....             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| VOA vial(s) free of headspace.....                            | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation.....                       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Initial: WB**COMMENTS:**


---

---

---

---

---

---

---

---



2795 2nd Street, Suite 300  
Davis, CA 95616  
Lab: 530.297.4800  
Fax: 530.297.4802

SRG # / Lab No.

46180

Page 1 of 1

Distribution: White - Lab; Pink - Originator  
Rev: 051805